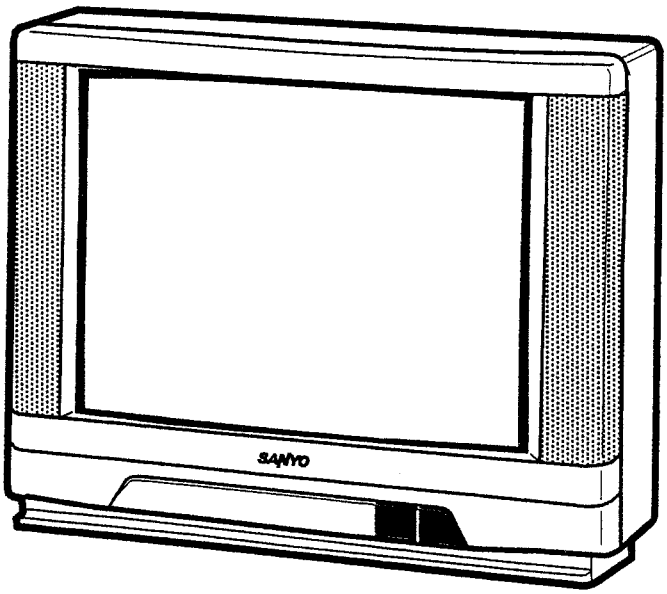
SANYO

Colour Television Service Manual Model C21EF34 C25EG34

(W.Europe)

Service Ref. No.
C21EF34-00 (THOMSON CRT)
C21EF34-01 (SAMSUNG CRT)
C25EG34-00 (THOMSON CRT)



Specifications

Power source	AC 220~240V 50Hz
Television system	System B/G
Colour system	PAL
Receiving channel	VHF E2-E12, X, Y, Z, S1-S41 UHF 21~69
Aerial input impedance	75ohm
AV terminal	
21 Pin socket	CENELEC standard
Sound output	8.5 watts X2
C21EF34	
Picture tube	55cm diagonal, 90 degree
(Visible picture diagonal)	51cm
Dimensions (WxHxD)	596 x 465.5 x 483 mm
Weight	22 Kg
C25EG34	
Picture tube	63cm diagonal, 110 degree
(Visible picture diagonal)	59cm
Dimensions (WxHxD)	680 x 535.5 x 449.5 mm
Weight	27 Kg

PART NO. SKSM0092

PRODUCT CODE
1113 23915 (C21EF34)
1113 24015 (C25EG34)
ORIGINAL VERSION
Chassis No. EB2-A

Give complete "SERVICE REF. NO." for parts order or servicing, it is shown on the rating sheet on the cabinet back of the TV set.

Note
This TV receiver will not work properly in foreign countries where the television transmission system and power source differ from the design specifications. Refer to the specifications for the design specifications

SAFETY PRECAUTION

1: An isolation transformer should be connected in the power line between the receiver and the AC line when a service is performed on the primary of the converter transformer of the set.

2: Comply with all caution and safety-related notes provided on the cabinet back, inside the cabinet, on the chassis or the picture tube.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, isolation resistor-capacitor networks etc.

Before returning any television to the customer, the service technician must be sure that it is completely safe to operate without danger of electrical shock.

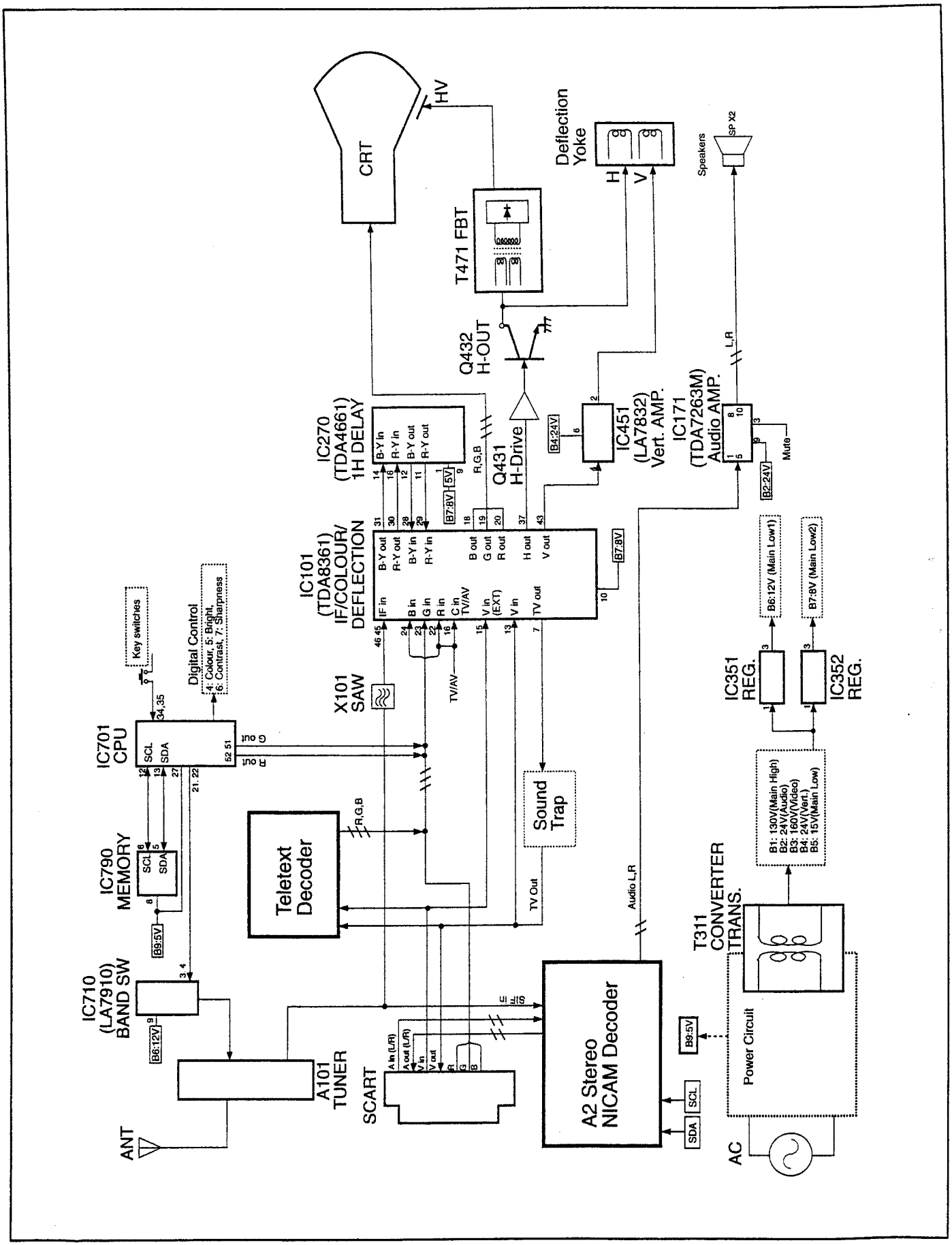
The primary source of X-RADIATION in the television receiver is the picture tube. The picture tube is specially constructed to limit X-RADIATION emissions. For continued X-RADIATION protection, the replacement tube must be the same type as the original including suffix letter. Excessive high voltage may produce potentially hazardous X-RADIATION. To avoid such hazards, the high voltage must be maintained within specified limit. Refer to this service manual, high voltage adjustment for specific high voltage limit. If high voltage exceeds specified limits, take necessary corrective action. Carefully follow the instructions for +B1 volt power supply adjustment, and high voltage adjustment to maintain the high voltage within the specified limits.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is particularly recommended that only parts designated on the parts list in this manual be used for component replacement designated by mark ⚠. No deviations from resistance wattage or voltage ratings may be made for replacement items designated by mark ⚠.

BLOCK DIAGRAM

This is a diagram for all models and therefore differs slightly from the actual block diagram.



CIRCUIT DESCRIPTION

1.POWER SUPPLY

The power supply circuit of the EB2-A chassis is composed of a rectifier smoothing circuit, an oscillation circuit, a control circuit and an output rectifier circuit. The AC input voltage is full-wave rectified by the rectifier smoothing circuit, and an unstable DC voltage is generated at both terminals of the smoothing capacitor C307. This voltage is input to the oscillation circuit. The oscillation circuit is provided with a blocking oscillator circuit that switches the switching transistor Q313 ON and OFF, and an oscillation frequency and a duty square wave pulse are generated in the input windings according to operation of the control circuit. A square-wave pulse whose size is dependent on the turn ratio of the input and output windings is obtained in the output winding. This is rectified in the output rectifier circuit, and the desired DC voltage is obtained.

2.IF & DEFLECTION (TDA8361)

The IF output signal from the tuner passes through the SAW filter, and it is input to pin45 and pin46 of IC101. The signal input to the IC passes through the IF amplifier, video detection and video amplifier circuits and is output from pin7 as a composite video signal. And after this signal is converted to impedance at Q122, supplies to the video and chroma amplifier stages.

The sync.-separation circuit separates the video signals applied to pin13(internal video signal) or pin15(external video signal) to vertical- and horizontal-sync. signals respectively. The horizontal oscillator requires no external components and is fully integrated. The oscillator is always running when the start-pin36 is supplied with 8V. Horizontal drive signal is output from pin37. VR401 is for adjustment of the horizontal centring. The separated vertical-sync. signal from sync. separation circuit passes through the vertical-separation circuit, and applied to trigger divider circuit. The horizontal oscillation pulse and input vertical sync. pulse are monitored by the trigger divider circuit, and switching 50Hz and 60Hz system, the vertical amplitude automatically adjusted for 50Hz and 60Hz. The output signal from the trigger divider is triggered vertical oscillation circuit consisting of C401, R402 and pin42, and vertical drive pulse is output from pin43. VR451 is for changing the amount of AC feedback applied to pin41 and for adjustment of the vertical amplitude.

3.VIDEO CHROMA & R.G.B. (TDA8361)

The composite video signal output from the pin7 of IC101 passes through Q122/Q124, and it is supplied to pin13. The external video signal output from SCART is supplied to pin15. The video signal input to pin13 or pin15 is separated to luminance (Y) signal and chroma signal in IC101. These pins are used in common with H/V-sync. separation input. The peaking of Y signal is adjusted by DC voltage of pin14. ("SHARPNESS" control) The chroma signal is divided into R-Y and B-Y chroma signals, demodulated in IC101, and output from pin30 (R-Y) and pin31 (B-Y). These chroma signals pass through the 1H delay line circuit (IC270), and they are input to pin29 (R-Y) and pin28 (B-Y). These R-Y/B-Y signals pass through RGB matrix circuit and RGB selector circuit of IC101. The internal RGB signals are generated in RGB matrix circuit and the RGB selector, consisting linear amplifiers, clamps and selects either the internal RGB signals or the external RGB signals input from pin22(R), pin23(G), pin24(B). Selection is controlled by the voltage at the RGB switch control (pin21) and mixed RGB modes are possible since RGB switching is fast. The RGB switch also functions as a fast blanking pin by blanking the RGB output stages; here internal and external RGB signals are overruled. The colour gain is controlled by DC voltage of pin26. ("COLOUR" control) The contrast control voltage present at pin25, and the brightness control voltage present at pin17 controls DC level of RGB signals. The RGB signals are finally buffered before being available at the RGB output pins [pin20 (R), pin19 (G), pin18 (R)].

4.AUDIO OUTPUT(TDA7263M)

The audio signals output from the audio unit are input to pin1(L) and 5(R) of IC171 and passes through the pre-amplifier circuit and drive circuit, after which it is input to the audio amplifier. The audio amplifier is an SEPP (single-ended, push-pull) OTL type and output to pin8(R) and 10(L) to directly drive the speakers.

5.VERTICAL OUTPUT (LA7832)

An IC (LA7832) is used for the vertical output circuit in this chassis. The vertical drive pulse from pin43 of IC101 is input to pin4 of IC451. This pulse drives IC451, and vertical scanning is performed. In the first half of scanning a deflecting current is output from pin2 and passes through the following path:

Vcc(B4) → D451 → pin3 → pin2 → DY → C461 → VR451/R459. An electric charge is then stored in C461. In the last half of scanning the current path is C461 → DY → pin2 → pin1 → VR451/R459 → C461. In this way, an amplifying sawtooth waveform current flows directly to DY to perform electron beam defection. Next, in the first half of the banking period the vertical drive pulse suddenly becomes OFF, and in order to reduce the current flowing to DY, the current path becomes as follows by the inductance of DY:

DY → pin2 → pin1 → VR451/R459 → C461 → DY. Also, when the charge of DY has dissipated, the current path becomes Vcc24V → pin6 → pin7 → C452 → pin3 → pin2→ DY → C461 → VR451/R459, and when the prescribed current value is reached, the vertical drive pulse becomes ON. This completes one cycle.

6.HORIZONTAL OUTPUT

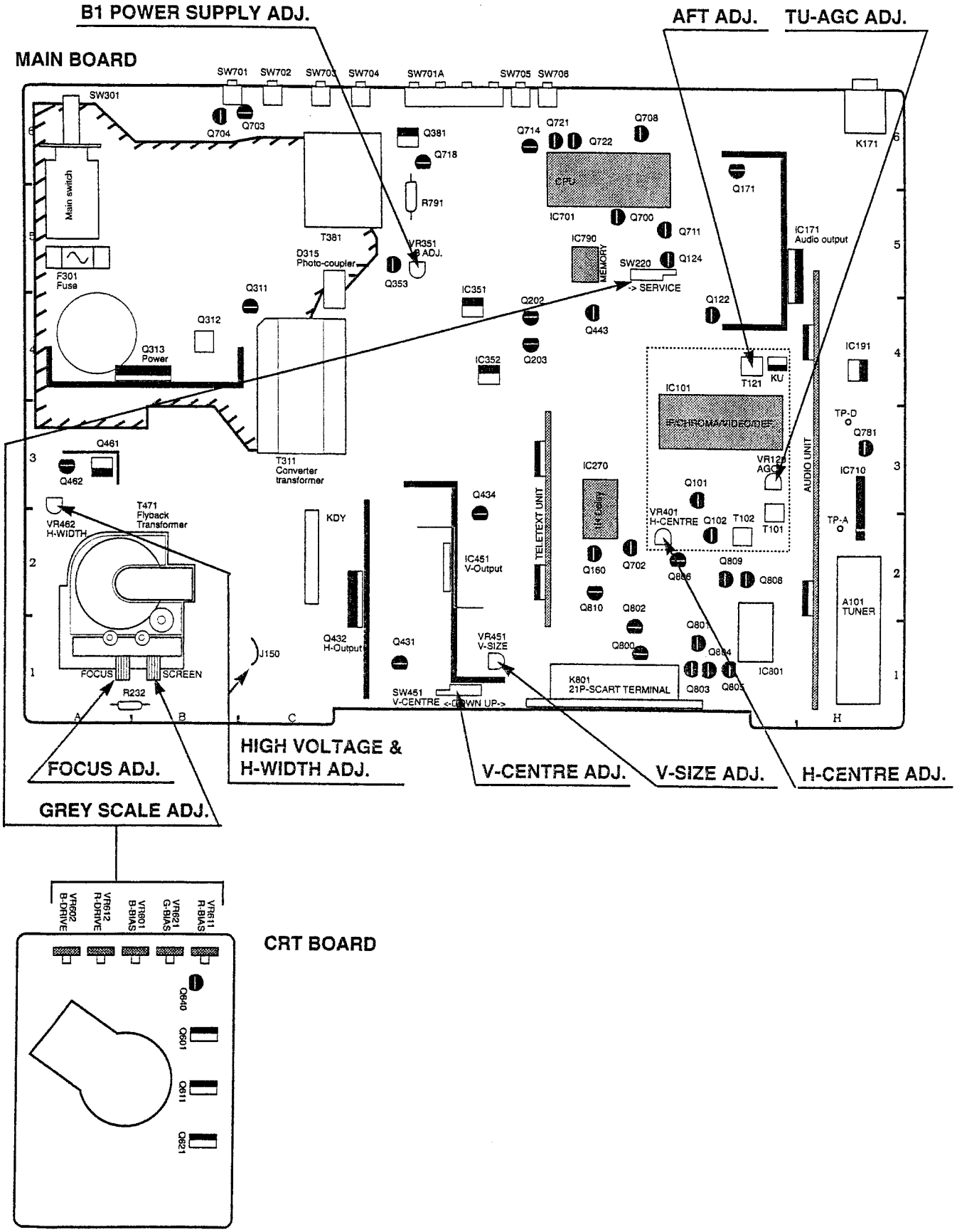
A horizontal oscillation signal is output from pin37 of IC101 and switches the drive transistor Q431. This switching signal is current amplified by the drive transformer T431 and drives the output transistor Q432. When Q432 becomes ON, an amplifying current flows directly to DY through C441/442 → DY → 0432 → GND, and defection is performed in the last half of the scanning period. Next, when Q432 becomes OFF, the charge that had been stored in DY up to that point releases a resonance current to the resonant capacitors C420 and C427 and charges them.The current stored in C420 and C427 is then flowed back to DY, and an opposite charge is then stored in DY. This opposite charge then switches the dumper diode in Q432 ON, the resonance state is completed, and an amplifying current is then flowed again directly to DY through the dumper diode. By this means, deflection in the first half of the scanning period is performed, and when Q432 becomes ON at the end of the first half of the scanning period, deflection during the last half is begun, thus completing one cycle.

7.CPU

Pin description

Pin1: H-sync. input (Horizontal pulse for OSD)
Pin2: V-sync. input (Vertical pulse for OSD)
Pin3: Not used(Open)
Pin4: Colour control output (6-bit DAC)
Pin5: Brightness control output (6-bit DAC)
Pin6: Contrast control output (6-bit DAC)
Pin7: Sharpness control output(6-bit DAC)
Pin8: Not used (GND)
Pin9: TV/AV output (L:AV mode)
Pin10: Not used(H)
Pin11: Not used (GND)
Pin12: I²C bus SCL (Serial clock for memory)
Pin13: I²C bus SDA (Serial date for memory)
Pin14: Tuning voltage output
Pin15: Ident signal input (L:No signal)
Pin16: R/C signal input
Pin17/18: Band select option input
Pin19: Ignor output
Pin20: SCART auto switch input (L:VCR Play)
Pin21/22: Band selector output
Pin23: Supply Ground
Pin24: Oscillator input for CPU
Pin25: Oscillator output for CPU
Pin26: Supply Ground
Pin27: Power supply(+5V)
Pin28: Oscillator output for OSD
Pin29: Oscillator input for OSD
Pin30: Reset input
Pin31: Protect signal input (L:Power circuit defects)
Pin32: Not used(GND)
Pin33: AFT signal input
Pin34: Keyboard scan 2
Pin35: Keyboard scan 1
Pin36: P-ON(TEXT)
Pin37: S-VHS detect input(Sin:H)
Pin38~45: Not used (GND)
Pin46: Not used(GND)
Pin47: Mute output in no picture(FTZ mute)
Pin48: Power ON/OFF output (H:ON)
Pin49: Blanking output for OSD
Pin50: Not used (Open)
Pin51: Green output for OSD
Pin52: Red output for OSD

SERVICE CONTROL ADJUSTMENT



B1 POWER SUPPLY ADJUSTMENT

1. Set VR351 to be mechanical centre before pressing the main switch.
2. Tune the receiver to PAL circular pattern.
3. Set brightness and contrast controls to normal.
4. Connect digital V-meter to R791(VR351 side).
5. By using VR351, adjust voltage to 130 ± 0.5 V **(for 21 inch)**.
   By using VR351, adjust voltage to 150 ± 0.5 V **(for 25 inch)**.

AFT ADJUSTMENT

1. Tune the receiver to the clearest station.
2. By using T121, adjust AFT to obtain the best picture.

AGC ADJUSTMENT

NOTE: ***Do not attempt this adjustment with weak signal.***

1. Tune the receiver to the clearest station.
2. Set AGC VR(VR120) in direction which causes snow noise to appear, then in the opposite direction until snow noise just disappears.

GREY SCALE ADJUSTMENT

[SCREEN VR ADJUSTMENT]

1. Tune the receiver to the white pattern.
2. Set brightness control to display centre and contrast control to normal.
3. Set SW220 to "SERVICE" position.
4. Set VR601and VR611 to be mechanical centre.
5. Turn VR602, VR612 and VR622 fully counter-clockwise.
6. Set screen VR for one colour to be just visible.

[BIAS VR ADJUSTMENT]

7. By using VR602, VR612 or VR622, adjust line to be white.
8. Set SW220 to "NORMAL" position.

[DRIVE VR ADJUSTMENT]

9. By using VR601 and VR611, adjust white balance.

HIGH VOLTAGE & WIDTH ADJUSTMENT

[HIGH VOLTAGE ADJUSTMENT]

1. Tune the receiver to PAL circular pattern.
2. Set brightness and contrast controls to maximum.
3. Connect digital V-meter to both terminals of R232(left side)(+) , and high voltage meter to CRT anode.
4. Confirm high voltage to be 25.0 ± 1 KV at beam current 1.0, and less than 28.0 KV at 0 beam current **(for 21 inch)**.
   Confirm high voltage to be 26.0 ± 1 KV at beam current 1.1, and less than 29.0 KV at 0 beam current **(for 25 inch)**.

[H-WIDTH ADJUSTMENT]

5. If H-width is too wide or narrow, connect or disconnect a lead wire J150 **(for 21 inch)**.
   Adjust VR462 to obtain proper H- width **(for 25 inch)**.
6. Reconfirm high voltage.

H-CENTRE ADJUSTMENT

1. Tune the receiver to circular pattern.
2. Adjust H-centre by using VR401.

V-CENTRE ADJUSTMENT

1. Tune the receiver to circular pattern.
2. Adjust V-centre by using SW451.

V-SIZE ADJUSTMENT

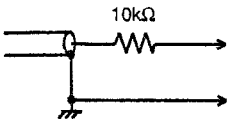
1. Tune the receiver to circular pattern.
2. Adjust V-size by using VR451.

FOCUS ADJUSTMENT

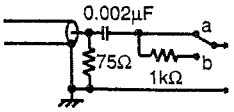
By using FOCUS VR, adjust focus control for well scanning lines.

CIRCUIT ALIGNMENT

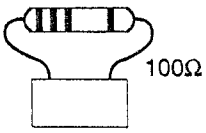
VIF ALIGNMENT



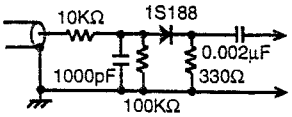
Input probe



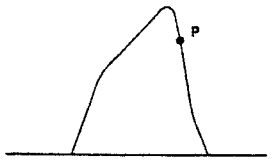
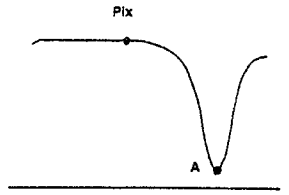
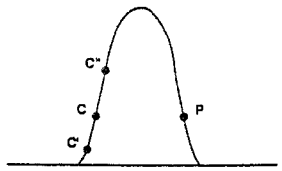
Output probe



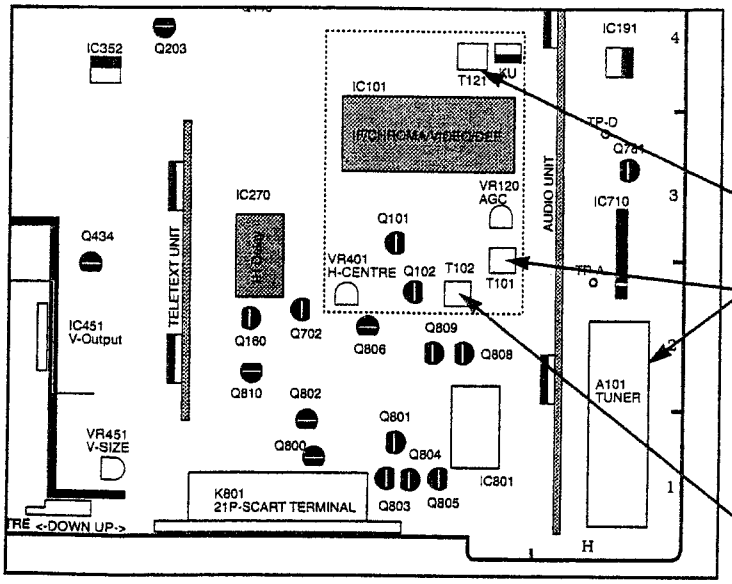
Damping resistor



Input probe for CH trap alignment

		DETECTOR ADJUSTMENT	CH TRAP ADJUSTMENT	OVERALL WAVEFORM
SETTING	DC 15V AGC voltage (4.3-4.5V) Output probe Input probe Band Damping R System SW Sweep ATT	IC351-1 IC101-48 p Tuner TP (Side b) Q124-E UHF(Note) No B/G 40	IC351-1 No Tuner TP (Side b) Q101-C UHF(Note) No B/G 20	IC351-1 IC101-48 p Tuner TP (Side b) Q124-E UHF(Note) KU-1 & KU-2 B/G 40
Adjustment		By using T121, adjust "P" to be maximum amplitude.	By using T102, adjust "A" to to bottom of channel trap.	By using Tuner converter coil and T101, make the marker positions to P=30 ± 10% C=30 ± 10%
VIF waveform				

MAIN BOARD



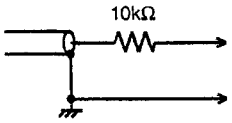
Note: For selection of UHF band, apply DC voltage 15V to 6pin, 5V to 3pin and 4pin of IC710.

Detector adjustment

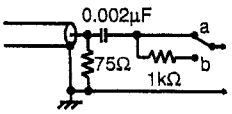
Overall waveform

CH trap adjustment

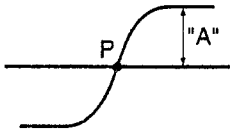
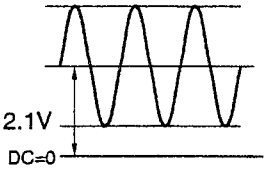
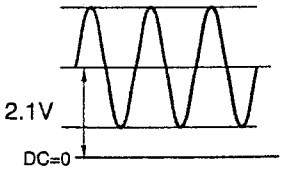
SIF ALIGNMENT

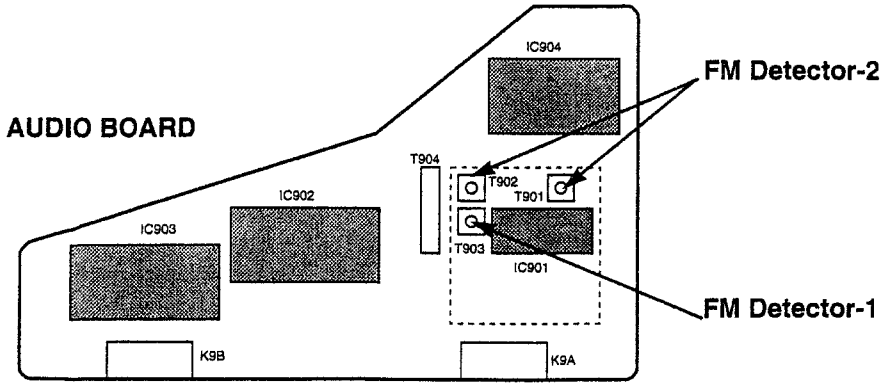


Input probe

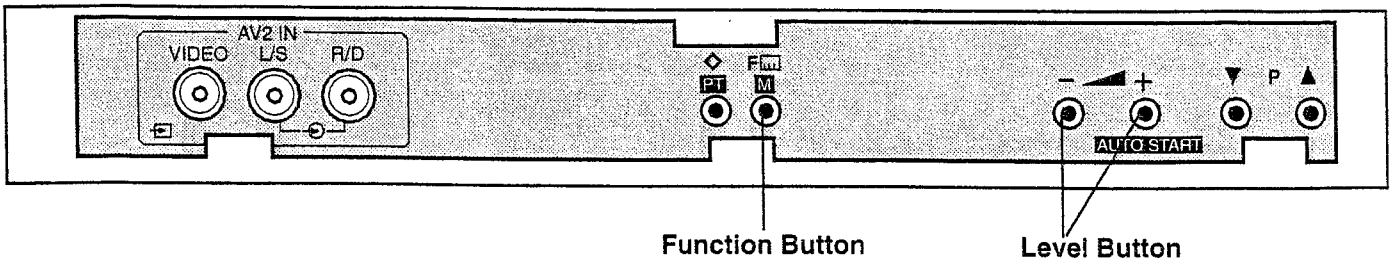


Output probe

		FM DETECTOR-1	FM DETECTOR-2	
SETTING	DC 5V AGC voltage Output probe Input probe Sweep ATT Marker Frequency	IC901-19pin IC901-2pin IC901-1pin (Side b) IC901-15pin 10 38.9MHz	IC901-19pin -- IC901-13pin (Side b) IC901-14pin **(Condition)** Carrier frequency: 5.5MHz Modulation frequency: 1kHz(sine waveform)	IC901-19pin -- IC901-17pin (Side b) IC901-16pin **(Condition)** Carrier frequency: 5.74MHz Modulation frequency: 1kHz(sine waveform)
Adjustment		1. Adjust AGC voltage to be "A" = 0.5Vp-p. 2. By using T903, adjust "P" to be equal centre line.	By using T902, adjust DC level to be 2.1V.	By using T901, adjust DC level to be 2.1V.
VIF waveform				



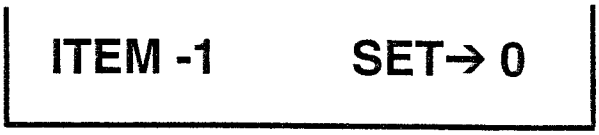
MEMORY IC REPLACEMENT (Important Notice)



When you replace a memory IC (IC790), it is necessary to initialise the IC as follows.

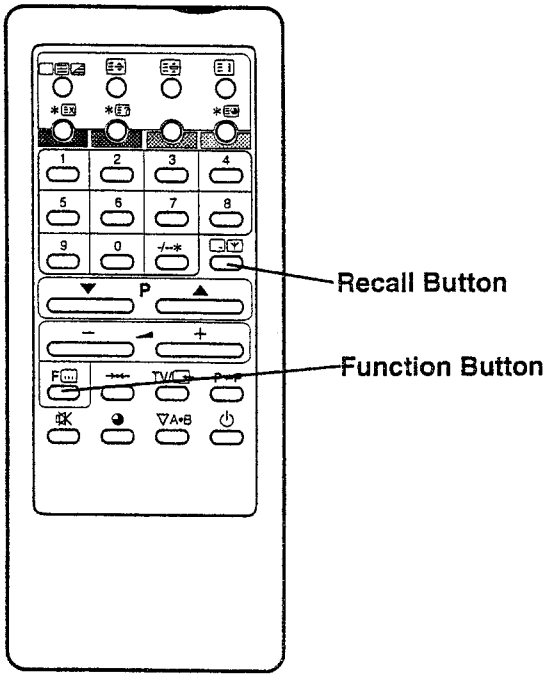
A. Initialisation of Memory IC

1. When you press and hold the Function button on the TV set and then press the Recall button on the RC transmitter, the following picture will appear on the screen.



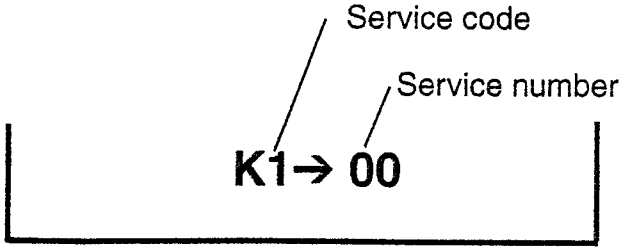
2. Confirm SET number of all items is **"0"** by pressing the Function button.
3. If it is not "0", change to "0" by the Level (+/-) button. (Changing the SET number, automatically memorised.)
4. Press the Recall button to return the TV mode.

For more information, please refer to "special functions" on the instruction manual.



B. Stereo separation setting

1. To enter the SERVICE mode, press and hold Function button on the TV set and then press the Function button on the RC transmitter. The following picture will appear on the screen.



2. Set the service codes and numbers as below;

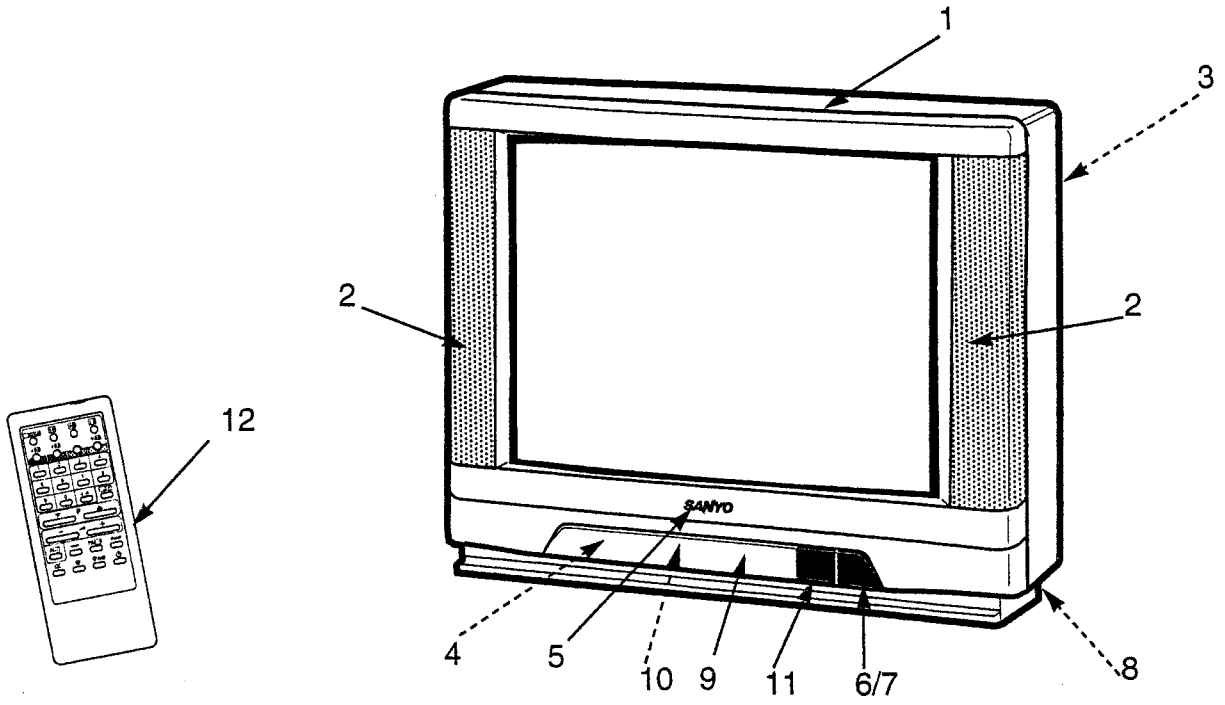
   K1 → 10

   K2 → 20

   To change the service code, press the Function button.
   To change the service number, press the Level (+/-) button.
3. Press the Recall button to return to the TV mode.
4. Confirm the sound quality with stereo signal receiving.

Cabinet Parts List

Note: Parts order must contain Service ref No., Part No. and a Description.



SERVICE REF. NO.
C21EF34-00

Key No.	Part No.	Description
1.	610 256 1333	ASSY,CABINET FR-E7RC
2.	610 256 6512	ASSY,GRILLE SP-E7RC
3.	610 249 5072	CABINET BACK - E7PC
4.	610 255 5271	DEC CONTROL SHEET-E7GC
5.	645 003 9256	SANYO BADGE
6.	610 255 3895	BUTTON-E7GC
7.	610 210 7302	COIL SPRING - D8HA
8.	610 102 7823	AC CORD HOLDER - D4VA
9.	610 255 9514	DOOR-E7GT
10.	610 104 2505	LATCH PUSH,7.9X6.9BK
11.	610 257 3633	DEC BOARD-E7GT
12.	645 003 9973	ASSY,REMOCON JXRC
	610 247 0154	RC CASE TOP-JXRA
	610 247 0161	RC CASE BOTTOM-JXRA
	610 247 0178	RC BATTERY LID-JXRA
	610 250 6457	DEC RC SHEET-JXRC

SERVICE REF. NO.
C25EG34-00

Key No.	Part No.	Description
1.	610 255 7077	ASSY,CABINET FR-E7GC
2.	610 256 6529	ASSY,GRILLE SP-E7GC
3.	610 250 9557	CABINET BACK - E7LC
4.	610 255 5271	DEC CONTROL SHEET-E7GC
5.	645 003 9256	SANYO BADGE
6.	610 255 3895	BUTTON-E7GC
7.	610 210 7302	COIL SPRING - D8HA
8.	610 102 7823	AC CORD HOLDER - D4VA
9.	610 255 9514	DOOR-E7GT
10.	610 104 2505	LATCH PUSH,7.9X6.9BK
11.	610 257 3633	DEC BOARD-E7GT
12.	645 003 9973	ASSY,REMOCON JXRC
	610 247 0154	RC CASE TOP-JXRA
	610 247 0161	RC CASE BOTTOM-JXRA
	610 247 0178	RC BATTERY LID-JXRA
	610 250 6457	DEC RC SHEET-JXRC

CHASSIS ELECTRICAL PARTS LIST

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note Parts order must contain Service Ref. No., Part No., and descriptions.

Ref. No.	Part No.	Description

Read description in the Capacitor and Resistor as follows:

CAPACITOR

CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

  Less than 10PF

  A: Not specified B: ±0.1PF C: ±0.25PF
  D: ±0.5PF F: ±1PF G: ±2PF
  R: ±0.25-0PF S: ±0-0.25PF E: +0-1PF

  More than 10PF

  A: Not specified B: ±0.1% C: ±0.25%
  D: ±0.5% F: ±1% G: ±2%
  H: ±3% J: ±5% K: ±10%
  L: ±15% M: ±20% N: ±30%
  P: +100-0% Q: +30-10% T: +50-10%
  U: +75-10% V: +20-10% W: +100-10%
  X: +40-20% Y: +150-10% Z: +80-20%
- 100P — Rated value: P=pico farad, U=Micro farad
- CERAMIC — Material:

CERAMIC..... Ceramic
MT-PAPER..... Metallized Paper
POLYESTER..... Polyester
MT-POLYEST.... Metallized Polyester
POLYPRO..... Polypropylene
MT-POLYPRO.... Metallized Polypropylene
COMPO FILM..... Composite film
MT-COMPO..... Metallized Composite
STYRENE..... Styrene
TA-SOLID..... Tantalum Solid
AL-SOLID..... Aluminium Solid
ELECT..... Electrolytic
NP-ELECT..... Non-polarized Electrolytic
OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic
DL-ELECT..... Doble Layered Electrolytic

RESISTOR

CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A: General B: Non flammable Z: Low noise
  Other: Temperature coefficient
- J — Tolerance Symbols:
  A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
  F: ±1% G: ±2% J: ±5% K: ±10%
  M: ±20% P: +5-15%
- 4.7K — Rated value, ohms:
  K: 1,000, M: 1,000,000
- CARBON — Material:

CARBON..... Carbon
MT-FILM..... Metal Film
OXIDE-MT..... Oxide Metal Film
SOLID..... Composition
MT-GLAZE..... Metal Glaze
WIRE WOUND... Wire Wound
CERAMIC RES.. Ceramic
FUSIBLE RES.... Fusible

Ref. No.	Part No.	Description

SERVICE REF. NO. C21EF34-00

OUT OF CIRCUIT BOARD

PICTURE TUBE

⚠Q901	414 005 4404	CRT A51EBV12X09

COIL

⚠L901	645 002 5624	COIL,DEGAUSSING
	645 002 5631	COIL,DEGAUSSING

MISCELLANEOUS

SP901	610 232 3986	SPEAKER
	610 228 7202	SPEAKER
SP902	610 232 3986	SPEAKER
	610 228 7202	SPEAKER
⚠W901	610 233 9567	AC CORD
W902	610 251 5824	ASSY,WIRE GND CONNECTOR E

ASSY,PWB,MAIN E7RT 1AA0B10E003A0

TRANSISTOR

Q101	405 013 3305	TR 2SC2216(SAN)
Q102	405 016 6204	TR 2SC3000-D
	405 016 6402	TR 2SC3000-E
	405 016 6600	TR 2SC3000-F
Q122	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q124	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q160	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q171	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q202	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP

Ref. No.	Part No.	Description
Q203	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q311	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q312	405 058 0208	TR 2SC3807-R-CTV-YA
Q313	405 018 9203	TR 2SC3895-T-CTV-YB
Q353	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q381	405 014 8408	TR 2SC2568(1)-K
	405 014 8507	TR 2SC2568(1)-L
	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
Q431	405 011 1808	TR 2SC1627-O
	405 011 1907	TR 2SC1627-Y
	405 013 6801	TR 2SC2274-E
	405 013 7006	TR 2SC2274-F
Q432	405 022 6809	TR 2SD1651-CTV-YB
Q434	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q443	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q700	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q702	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q703	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q704	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q708	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q711	405 118 4207	TR PH2369
Q714	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q721	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q722	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q781	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q800	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q801	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q802	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q803	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q804	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q805	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q806	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q808	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q809	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q810	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
INTEGRATED CIRCUIT		
IC101	409 309 6209	IC TDA8361/N3
IC171	409 301 4906	IC TDA7263M
IC191	409 026 8609	IC L78M05-RA
IC270	409 291 0605	IC TDA4661/V2
	409 322 0505	IC TDA4662/V1
IC351	409 143 3402	IC AN78M12-LB
	409 026 9507	IC L78M12-RA
IC352	409 285 5203	IC L78M08-RA
IC451	409 183 5008	IC LA7832
IC701	410 178 3503	IC M37210M3-620SP

Ref. No.	Part No.	Description
IC710	409 019 6209	IC LA7910
IC790	409 247 7702	IC ST24C02AB1
	409 257 7204	IC X24C02P
	409 281 8307	IC 24C02A/P
IC801	409 051 3006	IC TC4053BP
CAPACITOR		
C101	403 233 0302	ELECT 100U M 16V
C102	403 248 2001	ELECT 4.7U M 25V
C103	403 248 2001	ELECT 4.7U M 25V
C104	403 248 2001	ELECT 4.7U M 25V
C105	403 248 1400	ELECT 1U M 50V
C106	403 248 2001	ELECT 4.7U M 25V
C108	403 030 5401	CERAMIC 68P J 50V
C109	403 033 3602	CERAMIC 82P J 50V
C110	403 024 0009	CERAMIC 39P J 50V
C111	403 026 9703	CERAMIC 5P C 50V
C112	403 026 9703	CERAMIC 5P C 50V
C113	403 069 8305	CERAMIC 0.01U Z 50V
C114	403 069 8305	CERAMIC 0.01U Z 50V
C115	403 069 8305	CERAMIC 0.01U Z 50V
C117	403 248 1608	ELECT 47U M 16V
C121	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C122	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C127	403 069 0507	CERAMIC 1000P K 50V
C128	403 050 0509	ELECT 2.2U M 50V
C129	403 028 2009	CERAMIC 56P J 50V
C130	403 069 8305	CERAMIC 0.01U Z 50V
C131	403 248 1608	ELECT 47U M 16V
C132	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C133	403 024 9705	CERAMIC 4P C 50V
C135	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C136	403 194 4609	ELECT 470U M 16V
C137	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C160	403 056 9704	POLYESTER 0.01U J 50V
	403 178 9309	POLYESTER 0.01U J 50V
C170	403 069 8305	CERAMIC 0.01U Z 50V
C171	403 070 4600	CERAMIC 1200P K 50V
C172	403 070 4600	CERAMIC 1200P K 50V
C173	403 270 3601	MT-POLYEST 0.33U K 63V
	403 260 2904	MT-COMPO 0.33U J 50V
C174	403 270 3601	MT-POLYEST 0.33U K 63V
	403 260 2904	MT-COMPO 0.33U J 50V
C175	403 258 3609	ELECT 33U M 25V
C176	403 258 3609	ELECT 33U M 25V
C177	403 270 3403	MT-POLYEST 0.22U K 63V
	403 237 7901	MT-COMPO 0.22U J 50V
C178	403 270 3403	MT-POLYEST 0.22U K 63V
	403 237 7901	MT-COMPO 0.22U J 50V
C179	403 196 0203	ELECT 2200U M 35V
C180	403 270 3403	MT-POLYEST 0.22U K 63V
	403 237 7901	MT-COMPO 0.22U J 50V
C181	403 270 3403	MT-POLYEST 0.22U K 63V
	403 237 7901	MT-COMPO 0.22U J 50V
C182	403 196 0203	ELECT 2200U M 35V
C183	403 196 0203	ELECT 2200U M 35V
C188	403 248 2001	ELECT 4.7U M 25V
C189	403 248 1608	ELECT 47U M 16V
C191	403 258 3401	ELECT 10U M 25V
C192	403 258 3401	ELECT 10U M 25V
C193	403 244 1206	ELECT 100U M 10V
C202	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C203	403 061 8303	POLYESTER 4700P K 50V
	403 179 1104	POLYESTER 4700P K 50V
C204	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V

Ref. No.	Part No.	Description
C205	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C206	403 270 3809	MT-POLYEST 0.047U K 63V
	403 225 2703	MT-COMPO 0.047U J 50V
C207	403 248 2803	ELECT 2.2U M 50V
C208	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C209	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C210	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C211	403 248 2803	ELECT 2.2U M 50V
C212	403 248 2803	ELECT 2.2U M 50V
C213	403 057 0601	POLYESTER 0.01U K 50V
	403 179 3801	POLYESTER 0.01U K 50V
C215	403 270 3908	MT-POLYEST 0.47U K 63V
	403 256 0808	MT-COMPO 0.47U J 50V
C216	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C220	403 069 8305	CERAMIC 0.01U Z 50V
C221	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C231	403 194 2100	NP-ELECT 4.7U M 100V
C232	403 138 1602	ELECT 1U M 100V
C270	403 059 6205	POLYESTER 0.022U K 50V
	403 179 2408	POLYESTER 0.022U K 50V
C271	403 069 0507	CERAMIC 1000P K 50V
C272	403 069 0507	CERAMIC 1000P K 50V
C275	403 248 1905	ELECT 10U M 16V
⚠C301	404 047 3602	MT-POLYEST 0.1U M 125V
	404 044 0901	MT-COMPO 0.1U M 250V
⚠C302	404 047 3602	MT-POLYEST 0.1U M 125V
	404 044 0901	MT-COMPO 0.1U M 250V
C303	403 076 7100	CERAMIC 1000P M 1K
C304	403 076 7100	CERAMIC 1000P M 1K
C305	403 076 7100	CERAMIC 1000P M 1K
C306	403 076 7100	CERAMIC 1000P M 1K
C307	404 047 1707	ELECT 220U M 400V
C313	403 061 8303	POLYESTER 4700P K 50V
	403 179 1104	POLYESTER 4700P K 50V
C314	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C315	403 058 2604	POLYESTER 0.015U J 50V
	403 179 3207	POLYESTER 0.015U J 50V
C316	403 165 8407	CERAMIC 680P K 2K
	403 186 1104	CERAMIC 680P K 2K
C317	403 060 8403	POLYESTER 0.033U K 50V
	403 179 1609	POLYESTER 0.033U K 50V
⚠C331	404 060 6505	CERAMIC 2200P M 400V
	404 060 6604	CERAMIC 2200P M 400V
C351	403 165 6106	CERAMIC 470P K 1K
	403 186 2903	CERAMIC 470P K 1K
C352	403 165 8605	CERAMIC 470P K 2K
	403 232 1805	CERAMIC 470P K 2K
C353	403 165 6106	CERAMIC 470P K 1K
	403 186 2903	CERAMIC 470P K 1K
C354	403 186 3108	CERAMIC 390P K 1K
C361	404 042 4505	ELECT 220U M 160V
C362	403 281 1108	ELECT 22U M 250V
C363	403 233 1804	ELECT 330U M 35V
C364	403 148 0404	ELECT 1000U M 25V
C365	403 158 1309	ELECT 2200U M 35V
C371	403 201 5001	ELECT 330U M 16V
C372	403 194 4609	ELECT 470U M 16V
C382	403 210 5504	ELECT 470U M 35V
C383	403 160 0000	ELECT 470U M 10V
C400	403 014 0200	CERAMIC 18P J 50V
C401	403 270 2901	MT-POLYEST 0.1U K 63V
	403 237 8007	MT-COMPO 0.1U J 50V
C402	403 270 3809	MT-POLYEST 0.047U K 63V
	403 225 2703	MT-COMPO 0.047U J 50V
C403	403 061 8303	POLYESTER 4700P K 50V

Ref. No.	Part No.	Description			
	403 179 1104	POLYESTER	4700P	K	50V
C404	403 086 2300	NP-ELECT	1U	M	50V
C405	403 060 0704	POLYESTER	2700P	K	50V
	403 179 2200	POLYESTER	2700P	K	50V
C406	403 059 6205	POLYESTER	0.022U	K	50V
	403 179 2408	POLYESTER	0.022U	K	50V
C407	403 233 0302	ELECT	100U	M	16V
⚠C420	404 064 4200	MT-POLYPRO	8200P	J	1.5K
	404 046 8400	MT-POLYPRO	8200P	J	1.5K
C421	403 218 3106	ELECT	1000U	M	16V
C422	403 082 8405	POLYPRO	0.22U	J	200V
C426	403 066 6106	MT-POLYEST	0.47U	J	250V
⚠C427	403 165 7301	CERAMIC	330P	K	3K
	403 186 0107	CERAMIC	330P	K	3K
C430	403 075 7101	CERAMIC	1000P	K	500V
C432	403 075 7101	CERAMIC	1000P	K	500V
C433	403 076 3102	CERAMIC	3900P	K	500V
C434	403 229 1207	ELECT	47U	M	35V
⚠C441	403 082 7804	POLYPRO	0.18U	J	200V
⚠C442	403 082 8009	POLYPRO	0.2U	J	200V
C443	403 201 5001	ELECT	330U	M	16V
C444	403 259 8801	ELECT	0.47U	M	160V
C451	403 210 5504	ELECT	470U	M	35V
C452	403 217 1103	ELECT	220U	M	35V
C453	403 023 9706	CERAMIC	39P	J	50V
C454	403 069 8305	CERAMIC	0.01U	Z	50V
C455	403 074 5702	CERAMIC	560P	K	50V
C456	403 248 1905	ELECT	10U	M	16V
C458	403 233 0807	ELECT	10U	M	50V
C459	403 065 9801	MT-POLYEST	0.22U	K	100V
	403 188 0907	MT-POLYEST	0.22U	K	100V
C461A	403 209 7205	ELECT	2200U	M	25V
C463	403 065 9405	MT-POLYEST	0.15U	K	100V
C469	403 233 0807	ELECT	10U	M	50V
C700	403 068 9006	CERAMIC	100P	K	50V
C701	403 248 2001	ELECT	4.7U	M	25V
C704	403 068 9006	CERAMIC	100P	K	50V
C705	403 068 9006	CERAMIC	100P	K	50V
C706	403 068 9006	CERAMIC	100P	K	50V
C707	403 270 3403	MT-POLYEST	0.22U	K	63V
	403 237 7901	MT-COMPO	0.22U	J	50V
C708	403 270 3403	MT-POLYEST	0.22U	K	63V
	403 237 7901	MT-COMPO	0.22U	J	50V
C710	403 068 9006	CERAMIC	100P	K	50V
C711	403 248 2001	ELECT	4.7U	M	25V
C712	403 248 1400	ELECT	1U	M	50V
C713	403 248 1400	ELECT	1U	M	50V
C716	403 233 1507	ELECT	4.7U	M	50V
C717	403 068 9006	CERAMIC	100P	K	50V
C718	403 069 8305	CERAMIC	0.01U	Z	50V
C719	403 069 0507	CERAMIC	1000P	K	50V
C721	403 270 2901	MT-POLYEST	0.1U	K	63V
	403 237 8007	MT-COMPO	0.1U	J	50V
C722	403 248 1608	ELECT	47U	M	16V
C723	403 026 0700	CERAMIC	47P	J	50V
C724	403 026 0700	CERAMIC	47P	J	50V
C727	403 270 2901	MT-POLYEST	0.1U	K	63V
	403 237 8007	MT-COMPO	0.1U	J	50V
C729	403 248 1905	ELECT	10U	M	16V
C744	403 068 9006	CERAMIC	100P	K	50V
C801	403 068 9006	CERAMIC	100P	K	50V
C802	403 248 1905	ELECT	10U	M	16V
C804	403 068 9006	CERAMIC	100P	K	50V
C805	403 248 1905	ELECT	10U	M	16V
C806	403 248 1905	ELECT	10U	M	16V
C808	403 068 9006	CERAMIC	100P	K	50V
C810	403 068 9006	CERAMIC	100P	K	50V
C811	403 248 1905	ELECT	10U	M	16V
C812	403 068 9006	CERAMIC	100P	K	50V
C814	403 248 1905	ELECT	10U	M	16V
C816	403 068 9006	CERAMIC	100P	K	50V
C817	403 270 3908	MT-POLYEST	0.47U	K	63V

Ref. No.	Part No.	Description			
	403 256 0808	MT-COMPO	0.47U	J	50V
C818	403 248 1905	ELECT	10U	M	16V
C819	403 248 1905	ELECT	10U	M	16V
C820	403 248 1905	ELECT	10U	M	16V
C821	403 258 3401	ELECT	10U	M	25V
C822	403 044 7309	ELECT	10U	M	25V
RESISTOR					
R101	401 025 7805	CARBON	2.2K	JA	1/6W
R102	401 026 9303	CARBON	47	JA	1/6W
R103	401 012 4503	CARBON	100	JA	1/4W
R104	401 027 2600	CARBON	5.6K	JA	1/6W
R105	401 024 7004	CARBON	1K	JA	1/6W
R106	401 025 7409	CARBON	220	JA	1/6W
R107	401 026 0409	CARBON	27	JA	1/6W
R108	401 026 3905	CARBON	330	JA	1/6W
R121	401 027 0309	CARBON	47K	JA	1/6W
R122	401 025 8703	CARBON	220K	JA	1/6W
R123	401 025 8703	CARBON	220K	JA	1/6W
R124	401 027 5502	CARBON	6.8K	JA	1/6W
R126	401 027 2600	CARBON	5.6K	JA	1/6W
R127	401 024 6700	CARBON	100	JA	1/6W
R131	401 022 3107	CARBON	6.8K	JA	1/4W
R132	401 020 2904	CARBON	47K	JA	1/4W
R133	401 025 3807	CARBON	180	JA	1/6W
R134	401 012 5708	CARBON	1K	JA	1/4W
R135	401 027 2303	CARBON	560	JA	1/6W
R136	401 027 0309	CARBON	47K	JA	1/6W
R138	401 025 1308	CARBON	150	JA	1/6W
R160	401 027 0309	CARBON	47K	JA	1/6W
R161	401 026 1000	CARBON	2.7K	JA	1/6W
R162	401 026 4605	CARBON	33K	JA	1/6W
R163	401 026 9907	CARBON	4.7K	JA	1/6W
R171	401 019 9600	CARBON	47	JA	1/4W
R172	401 010 1504	CARBON	4.7	JA	1/2W
R173	401 016 3809	CARBON	2.2K	JA	1/4W
R174	401 010 1504	CARBON	4.7	JA	1/2W
R175	401 019 9600	CARBON	47	JA	1/4W
R176	401 016 3809	CARBON	2.2K	JA	1/4W
R178	401 025 7805	CARBON	2.2K	JA	1/6W
R180	401 024 7400	CARBON	10K	JA	1/6W
R181	401 024 7400	CARBON	10K	JA	1/6W
R182	401 024 7400	CARBON	10K	JA	1/6W
R189	401 024 7400	CARBON	10K	JA	1/6W
R191	401 025 8208	CARBON	22K	JA	1/6W
R202	401 024 7707	CARBON	100K	JA	1/6W
R203	401 012 4503	CARBON	100	JA	1/4W
R204	401 012 4503	CARBON	100	JA	1/4W
R205	401 012 4503	CARBON	100	JA	1/4W
R206	401 024 6700	CARBON	100	JA	1/6W
R207	401 024 6700	CARBON	100	JA	1/6W
R208	401 024 6700	CARBON	100	JA	1/6W
R209	401 022 3107	CARBON	6.8K	JA	1/4W
R210	401 025 1902	CARBON	15K	JA	1/6W
R212	401 025 4200	CARBON	1.8K	JA	1/6W
R213	401 016 4806	CARBON	22K	JA	1/4W
R215	401 025 4200	CARBON	1.8K	JA	1/6W
R216	401 012 7009	CARBON	10K	JA	1/4W
R219	401 019 1000	CARBON	390	JA	1/4W
R220	401 027 5007	CARBON	68	JA	1/6W
R221	401 024 6700	CARBON	100	JA	1/6W
R231	401 014 6109	CARBON	150K	JA	1/4W
R232	401 012 5708	CARBON	1K	JA	1/4W
R233	401 000 7509	SOLID	1.5K	KA	1/2W
R235	401 026 7408	CARBON	39K	JA	1/6W
R275	401 025 7409	CARBON	220	JA	1/6W
⚠R301	401 008 8607	CARBON	220K	JA	1/2W
R302	402 067 7709	WIRE WOUND	3.9	KA	7W
R311	401 027 2600	CARBON	5.6K	JA	1/6W
R315	401 025 8208	CARBON	22K	JA	1/6W
R317	401 024 7004	CARBON	1K	JA	1/6W
R319	401 016 1508	CARBON	22	JA	1/4W

Ref. No.	Part No.	Description		
R320	401 007 5805	CARBON	120K JA	1/2W
R321	401 007 5805	CARBON	120K JA	1/2W
R322	401 014 5201	CARBON	15K JA	1/4W
R323	401 026 1000	CARBON	2.7K JA	1/6W
R324	401 069 1708	OXIDE-MT	68 JA	2W
R325	401 069 1609	OXIDE-MT	68 JA	2W
R326	401 018 7805	CARBON	3.6K GA	1/4W
R331	402 000 8305	SOLID	5.6M KA	1/2W
R332	402 000 8305	SOLID	5.6M KA	1/2W
R352	401 012 8105	CARBON	100K JA	1/4W
R353	401 026 9907	CARBON	4.7K JA	1/6W
R354	401 014 6109	CARBON	150K JA	1/4W
R355	401 010 4307	CARBON	47K JA	1/2W
R356	401 025 8208	CARBON	22K JA	1/6W
R360	402 055 7902	WIRE WOUND	5.6 KA	3W
R362	402 067 8904	WIRE WOUND	3.9 KA	5W
R363	401 066 5006	OXIDE-MT	22 JA	2W
R364	401 010 1504	CARBON	4.7 JA	1/2W
R368	401 066 9004	OXIDE-MT	27 JA	2W
R382	401 026 4308	CARBON	3.3K JA	1/6W
R385	401 025 7409	CARBON	220 JA	1/6W
R393	401 024 9701	CARBON	12K JA	1/6W
R394	401 026 7606	CARBON	390K JA	1/6W
R400	401 027 0309	CARBON	47K JA	1/6W
R401	401 024 6700	CARBON	100 JA	1/6W
R402	401 024 8001	CARBON	1M JA	1/6W
R403	401 012 4503	CARBON	100 JA	1/4W
R404	401 025 8208	CARBON	22K JA	1/6W
R405	401 024 6700	CARBON	100 JA	1/6W
R406	401 026 7606	CARBON	390K JA	1/6W
R407	401 025 8208	CARBON	22K JA	1/6W
R408	401 012 4503	CARBON	100 JA	1/4W
R409	401 026 9907	CARBON	4.7K JA	1/6W
R410	401 025 8208	CARBON	22K JA	1/6W
R420	401 024 7400	CARBON	10K JA	1/6W
R422	402 069 8704	WIRE WOUND	8.2 KA	7W
R432	401 026 3905	CARBON	330 JA	1/6W
R433	401 010 3102	CARBON	470 JA	1/2W
R434	401 067 9003	OXIDE-MT	390 JA	2W
R436	401 014 5201	CARBON	15K JA	1/4W
R441	401 058 3706	OXIDE-MT	1K JA	1W
R444	401 024 6700	CARBON	100 JA	1/6W
R445	401 024 7707	CARBON	100K JA	1/6W
R446	401 015 4708	CARBON	180K JA	1/4W
R448A	401 008 0908	CARBON	180 JA	1/2W
R449	401 007 6901	CARBON	15 JA	1/2W
R450	401 027 3003	CARBON	56K JA	1/6W
R451	401 026 8108	CARBON	4.7 JA	1/6W
R452	401 027 8602	CARBON	8.2K JA	1/6W
R453	401 014 4105	CARBON	1.5K JA	1/4W
R454	401 025 1308	CARBON	150 JA	1/6W
R455	401 025 7805	CARBON	2.2K JA	1/6W
R456	401 020 2003	CARBON	4.7K JA	1/4W
R457	401 025 7805	CARBON	2.2K JA	1/6W
R459	401 057 7408	OXIDE-MT	0.82 JA	1W
R460	401 060 7303	OXIDE-MT	270 JA	1W
R461	401 063 6303	OXIDE-MT	820 JA	1W
R475	401 009 5803	CARBON	330 JA	1/2W
R476	401 025 7805	CARBON	2.2K JA	1/6W
R477	401 021 3009	CARBON	5.6K JA	1/4W
R479	401 016 3809	CARBON	2.2K JA	1/4W
R481	401 064 5701	OXIDE-MT	1.8 JA	2W
R700	401 024 7400	CARBON	10K JA	1/6W
R701	401 024 7400	CARBON	10K JA	1/6W
R702	401 026 4308	CARBON	3.3K JA	1/6W
R704	401 026 7002	CARBON	3.9K JA	1/6W
R705	401 026 4308	CARBON	3.3K JA	1/6W
R706	401 012 7009	CARBON	10K JA	1/4W
R707	401 012 5708	CARBON	1K JA	1/4W
R708	401 012 5708	CARBON	1K JA	1/4W
R710	401 024 7400	CARBON	10K JA	1/6W
R711	401 012 7009	CARBON	10K JA	1/4W
R712	401 025 7805	CARBON	2.2K JA	1/6W
R713	401 024 7400	CARBON	10K JA	1/6W
R714	401 026 1307	CARBON	27K JA	1/6W
R715	401 025 8208	CARBON	22K JA	1/6W
R716	401 027 0309	CARBON	47K JA	1/6W
R717	401 024 9305	CARBON	1.2K JA	1/6W
R718	401 026 7002	CARBON	3.9K JA	1/6W
R719	401 012 7009	CARBON	10K JA	1/4W
R721	401 026 4605	CARBON	33K JA	1/6W
R723	401 024 7004	CARBON	1K JA	1/6W
R724	401 024 7400	CARBON	10K JA	1/6W
R726	401 024 7400	CARBON	10K JA	1/6W
R731	401 026 6609	CARBON	390 JA	1/6W
R732	401 024 7400	CARBON	10K JA	1/6W
R733	401 025 4200	CARBON	1.8K JA	1/6W
R734	401 026 9907	CARBON	4.7K JA	1/6W
R735	401 027 8602	CARBON	8.2K JA	1/6W
R736	401 025 1605	CARBON	1.5K JA	1/6W
R737	401 014 4105	CARBON	1.5K JA	1/4W
R738	401 026 6609	CARBON	390 JA	1/6W
R743	401 025 1308	CARBON	150 JA	1/6W
R744	401 026 7002	CARBON	3.9K JA	1/6W
R745	401 025 1308	CARBON	150 JA	1/6W
R746	401 026 7002	CARBON	3.9K JA	1/6W
R758	401 027 2600	CARBON	5.6K JA	1/6W
R759	401 025 7805	CARBON	2.2K JA	1/6W
R760	401 019 1901	CARBON	3.9K JA	1/4W
R761	401 068 4601	OXIDE-MT	4.7K JA	2W
R762	401 024 7400	CARBON	10K JA	1/6W
R763	401 025 1902	CARBON	15K JA	1/6W
R764	401 025 4903	CARBON	180K JA	1/6W
R767	401 024 6700	CARBON	100 JA	1/6W
R769	401 016 4806	CARBON	22K JA	1/4W
R772	401 024 7004	CARBON	1K JA	1/6W
R773	401 024 7004	CARBON	1K JA	1/6W
R775	401 012 7009	CARBON	10K JA	1/4W
R776	401 024 7707	CARBON	100K JA	1/6W
R781	401 026 9907	CARBON	4.7K JA	1/6W
R782	401 025 8208	CARBON	22K JA	1/6W
R791	401 068 4601	OXIDE-MT	4.7K JA	2W
R792	401 014 5201	CARBON	15K JA	1/4W
R793	401 012 7009	CARBON	10K JA	1/4W
R794	401 012 7009	CARBON	10K JA	1/4W
R796	401 013 5301	CARBON	1.2K JA	1/4W
R800	401 027 2303	CARBON	560 JA	1/6W
R801	401 024 7707	CARBON	100K JA	1/6W
R803	401 024 7707	CARBON	100K JA	1/6W
R804	401 025 7805	CARBON	2.2K JA	1/6W
R805	401 027 5502	CARBON	6.8K JA	1/6W
R806	401 027 8602	CARBON	8.2K JA	1/6W
R807	401 024 7707	CARBON	100K JA	1/6W
R808	401 025 7805	CARBON	2.2K JA	1/6W
R809	401 027 2303	CARBON	560 JA	1/6W
R810	401 024 7707	CARBON	100K JA	1/6W
R812	401 025 4606	CARBON	18K JA	1/6W
R814	401 022 3107	CARBON	6.8K JA	1/4W
R815	401 014 5201	CARBON	15K JA	1/4W
R816	401 024 7400	CARBON	10K JA	1/6W
R817	401 025 7805	CARBON	2.2K JA	1/6W
R818	401 027 6608	CARBON	75 JA	1/6W
R819	401 025 8208	CARBON	22K JA	1/6W
R820	401 026 1000	CARBON	2.7K JA	1/6W
R822	401 025 4606	CARBON	18K JA	1/6W
R823	401 027 5502	CARBON	6.8K JA	1/6W
R824	401 026 9907	CARBON	4.7K JA	1/6W
R825	401 021 3009	CARBON	5.6K JA	1/4W
R826	401 024 7400	CARBON	10K JA	1/6W
R827	401 027 6608	CARBON	75 JA	1/6W
R828	401 026 9907	CARBON	4.7K JA	1/6W
R829	401 026 9600	CARBON	470 JA	1/6W
R830	401 012 7009	CARBON	10K JA	1/4W
R831	401 027 6608	CARBON	75 JA	1/6W

Ref. No.	Part No.	Description
R832	401 027 6608	CARBON 75 JA 1/6W
R835	401 025 8208	CARBON 22K JA 1/6W
R837	401 027 6608	CARBON 75 JA 1/6W
R845	401 012 5708	CARBON 1K JA 1/4W
R846	401 024 9305	CARBON 1.2K JA 1/6W
R847	401 025 7805	CARBON 2.2K JA 1/6W
R848	401 024 7707	CARBON 100K JA 1/6W
R849	401 026 4308	CARBON 3.3K JA 1/6W
R851	401 024 7707	CARBON 100K JA 1/6W
R852	401 027 6608	CARBON 75 JA 1/6W
R853	401 024 6700	CARBON 100 JA 1/6W
R854	401 024 9305	CARBON 1.2K JA 1/6W
R856	401 024 7400	CARBON 10K JA 1/6W
R857	401 012 7009	CARBON 10K JA 1/4W
R858	401 026 9600	CARBON 470 JA 1/6W
R860	401 024 7004	CARBON 1K JA 1/6W
R861	401 027 9005	CARBON 82K JA 1/6W
R862	401 027 9005	CARBON 82K JA 1/6W
R863	401 027 9005	CARBON 82K JA 1/6W
R864	401 023 3700	CARBON 82K JA 1/4W
R866	401 027 5502	CARBON 6.8K JA 1/6W
R867	401 027 8602	CARBON 8.2K JA 1/6W
VARIABLE RESISTOR		
VR120	610 237 8726	VR B-10K
	610 239 7550	VR B-10K
VR351	610 237 8702	VR B-2.2K
	610 239 7574	VR B-2K
VR401	610 237 8726	VR B-10K
	610 239 7550	VR B-10K
VR451	610 230 8013	VR B-100
	610 232 7892	VR B-100
TRANSFORMER		
T101	610 037 5727	S TRANS
T102	610 037 7103	S TRANS
T121	610 037 4522	S COIL
⚠T311	610 233 1516	CONVERTER TRANS
	610 233 1523	CONVERTER TRANS
⚠T381	610 033 3758	POWER TRANS
	610 240 4722	POWER TRANS
T431	610 000 1053	DRIVE TRANS
	610 000 1060	DRIVE TRANS
⚠T471	610 233 6078	FBT
COIL		
L125	645 001 4567	INDUCTOR,10U K
⚠L301A	610 221 6912	LINE FILTER
L420	610 032 0703	INDUCTOR
L441A	610 000 0605	LINEARITY COIL
	610 210 8071	LINEARITY COIL
L442	610 000 0278	COIL
	610 205 1117	COIL
L451	610 210 3908	PEAKING COIL 33UHK
	645 001 5748	INDUCTOR,33U K
L458	645 008 5642	INDUCTOR,3.3U K
L702	645 008 2894	INDUCTOR,5.6U K
L703	645 008 2894	INDUCTOR,5.6U K
L704	645 003 9782	INDUCTOR,22U K
L705	645 001 4697	INDUCTOR,1.5U M
L706	645 001 4567	INDUCTOR,10U K
L800	645 001 4567	INDUCTOR,10U K
L801	645 001 4567	INDUCTOR,10U K
L803	645 001 4567	INDUCTOR,10U K
L804	645 001 4567	INDUCTOR,10U K
DIODE		
D130	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D189	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D190	407 148 0105	ZENER DIODE EQA02-05A
	407 148 0204	ZENER DIODE EQA02-05B
	407 053 5806	ZENER DIODE MTZ4.7B
	407 053 5905	ZENER DIODE MTZ4.7C
D191	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D201	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D202	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D203	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D210	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D231	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D232	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D275	407 048 1202	ZENER DIODE EQA02-05E
	407 053 6407	ZENER DIODE MTZ5.1C
D302	407 005 7308	DIODE EM01Z
D303	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D304	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D305	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D306	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D314	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
⚠D315	407 105 8700	PHOTO COUPLE PC113B
D316	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D317	407 007 6606	DIODE ES1
	407 007 6903	DIODE ES1Z
	408 009 9008	DIODE BYD33D
D318	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D319	407 048 4005	ZENER DIODE EQA02-08A
	407 048 4203	ZENER DIODE EQA02-08B
	407 053 8104	ZENER DIODE MTZ7.5C
	407 053 8302	ZENER DIODE MTZ8.2A
D351	407 007 7702	DIODE EU2A
D352	407 007 7504	DIODE EU1C
D353	407 007 7603	DIODE EU2
	407 007 7801	DIODE EU2Z
D354	407 106 2806	DIODE RU3YX
D355	407 103 1604	DIODE RU4YX LF-J3
D361	407 048 2407	ZENER DIODE EQA02-06E
	407 048 2605	ZENER DIODE EQA02-06F
	407 053 7206	ZENER DIODE MTZ6.2C
	407 053 7503	ZENER DIODE MTZ6.8A
D381	407 048 2001	ZENER DIODE EQA02-06B
	407 053 6803	ZENER DIODE MTZ5.6C
D384	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D391	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D392	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D393	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176

Ref. No.	Part No.	Description
D401	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D431	407 048 4906	ZENER DIODE EQA02-09A
	407 048 5101	ZENER DIODE EQA02-09B
	407 053 8708	ZENER DIODE MTZ9.1A
	407 053 8807	ZENER DIODE MTZ9.1B
D432	407 007 6606	DIODE ES1
D433	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D440	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D441	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D442	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D443	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D446	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D451	407 005 7308	DIODE EM01Z
D452	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D467	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D468	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D471	407 118 2207	ZENER DIODE 1Z75
D701	407 120 9706	LED LN28RPL
D701A	610 255 3956	HOLDER LED-E7GC
D702	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D703	407 055 7907	ZENER DIODE RD3.6EL
D704	409 013 0104	IC HZT33
D705	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D800	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D801	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D802	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D803	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D804	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D805	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D807	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D808	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D809	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D810	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D811	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D812	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D813	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D814	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D816	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C

MISCELLANEOUS

F301	423 022 2102	FUSE 250V 4A
A101	610 229 0110	UV VARACTOR TUNER
A701	645 007 1546	UNIT,REMOCON RECEIVER
	610 224 5806	RC PREAMP 409-1L
K801	610 234 3779	SOCKET 21P
K802	645 000 1000	TERMINAL,BOARD
⚠PS301	408 003 6805	THERMISTOR 902P44E180MR14
	408 015 1904	THERMISTOR PA3A5180B270
	408 000 3906	TH PTH451A112BF180M270
SW220	610 011 2728	SWITCH,LEVER 1P-3T
⚠SW301	645 003 6811	SWITCH,PUSH POWER 2P-2T
SW451	610 011 2728	SWITCH,LEVER 1P-3T
SW701	610 011 4432	SWITCH,PUSH
SW702	610 011 4432	SWITCH,PUSH
SW703	610 011 4432	SWITCH,PUSH
SW704	610 011 4432	SWITCH,PUSH
SW705	610 011 4432	SWITCH,PUSH
SW706	610 011 4432	SWITCH,PUSH
X101	421 005 5102	SAW F TSF5315-2
	421 002 2609	SAW F TSF5315
X124	610 015 2854	TRAP,CERAMIC 5.5MHZ
X400	610 249 5577	CRYSTAL OSCILLATOR
X701	645 000 6692	OSC,CERAMIC 8.00MHZ
	645 002 1039	OSC,CERAMIC 8.00MHZ

ASSY,PWB,CRT E7PD 1AA0B10E00800

TRANSISTOR

Q601	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
	405 066 9903	TR 2SC2688(1)-K
	405 067 0008	TR 2SC2688(1)-L
	405 067 0107	TR 2SC2688(1)-M
Q611	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
	405 066 9903	TR 2SC2688(1)-K
	405 067 0008	TR 2SC2688(1)-L
	405 067 0107	TR 2SC2688(1)-M
Q621	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
	405 066 9903	TR 2SC2688(1)-K
	405 067 0008	TR 2SC2688(1)-L
	405 067 0107	TR 2SC2688(1)-M
Q640	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R

CAPACITOR

C601	403 072 7708	CERAMIC	330P K	50V
C611	403 072 7708	CERAMIC	330P K	50V
C621	403 072 7708	CERAMIC	330P K	50V
C631	403 077 2708	CERAMIC	1000P P	2K

RESISTOR

R601	401 018 2800	CARBON	330 JA	1/4W
R602	401 018 3807	CARBON	3.3K JA	1/4W
R603	401 012 5708	CARBON	1K JA	1/4W
R604	401 065 4604	OXIDE-MT	12K JA	2W
R605	401 002 0102	SOLID	3.3K KA	1/2W
R611	401 018 2800	CARBON	330 JA	1/4W
R612	401 018 3807	CARBON	3.3K JA	1/4W
R613	401 016 3809	CARBON	2.2K JA	1/4W
R614	401 065 4604	OXIDE-MT	12K JA	2W
R615	401 002 0102	SOLID	3.3K KA	1/2W

Ref. No.	Part No.	Description
R621	401 018 2800	CARBON 330 JA 1/4W
R622	401 018 3807	CARBON 3.3K JA 1/4W
R623	401 015 2704	CARBON 1.8K JA 1/4W
R624	401 065 4604	OXIDE-MT 12K JA 2W
R625	401 002 0102	SOLID 3.3K KA 1/2W
R627	401 020 0801	CARBON 470 JA 1/4W
R631	401 001 7607	SOLID 270K KA 1/2W
R641	401 020 2003	CARBON 4.7K JA 1/4W
R642	401 018 3807	CARBON 3.3K JA 1/4W
R644	401 019 1000	CARBON 390 JA 1/4W
VARIABLE RESISTOR		
VR601	645 003 4121	VR,SEMI,4.7K S
VR602	645 002 1916	VR,SEMI,1K S
VR611	645 003 4121	VR,SEMI,4.7K S
VR612	645 002 1916	VR,SEMI,1K S
VR621	645 003 4121	VR,SEMI,4.7K S
COIL		
L601	645 008 0012	INDUCTOR,330U K
L611	645 008 0012	INDUCTOR,330U K
L621	645 008 0012	INDUCTOR,330U K
MISCELLANEOUS		
K601	610 233 7990	CRT SOCKET

ASSY,PWB,TEXT E7LT 1AA0B10E0550A

TRANSISTOR		
Q1001	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1002	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1003	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1004	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1005	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1006	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1007	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
INTEGRATED CIRCUIT		
IC1001	409 329 8900	IC SAA5254P/E
IC1002	409 018 7603	IC LA7016
CAPACITOR		
C1001	403 166 6808	MT-POLYEST 0.1U J 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C1002	403 248 1608	ELECT 47U M 16V
C1003	403 166 6808	MT-POLYEST 0.1U J 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C1004	403 032 8608	CERAMIC 8P D 50V
C1005	403 012 6808	CERAMIC 15P J 50V
C1006	403 056 7908	POLYESTER 1000P K 50V
	403 056 8707	POLYESTER 1000P K 50V
C1007	403 166 6808	MT-POLYEST 0.1U J 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C1008	403 166 6808	MT-POLYEST 0.1U J 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C1009	403 166 6808	MT-POLYEST 0.1U J 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C1010	403 166 6808	MT-POLYEST 0.1U J 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C1020	403 248 1905	ELECT 10U M 16V
C1021	403 248 1905	ELECT 10U M 16V
C1025	403 069 9500	CERAMIC 0.01U Z 50V

Ref. No.	Part No.	Description
RESISTOR		
R1001	401 038 2200	MT-GLAZE 27K JA 1/10W
R1002	401 038 7809	MT-GLAZE 56K JA 1/10W
R1003	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1005	401 038 7502	MT-GLAZE 56 JA 1/10W
R1008	401 038 9506	MT-GLAZE 75 JA 1/10W
R1011	401 038 9506	MT-GLAZE 75 JA 1/10W
R1012	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1013	401 037 5400	MT-GLAZE 1K JA 1/10W
R1014	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1015	401 038 9308	MT-GLAZE 68K JA 1/10W
R1016	401 038 5003	MT-GLAZE 390 JA 1/10W
R1018	401 037 5608	MT-GLAZE 10K JA 1/10W
R1020	401 037 5202	MT-GLAZE 100 JA 1/10W
R1021	401 037 5202	MT-GLAZE 100 JA 1/10W
R1022	401 037 5202	MT-GLAZE 100 JA 1/10W
R1023	401 038 6307	MT-GLAZE 470 JA 1/10W
R1024	401 038 6307	MT-GLAZE 470 JA 1/10W
R1025	401 037 5400	MT-GLAZE 1K JA 1/10W
R1026	401 037 5400	MT-GLAZE 1K JA 1/10W
R1027	401 037 5608	MT-GLAZE 10K JA 1/10W
R1029	401 038 0800	MT-GLAZE 22K JA 1/10W
R1030	401 038 0800	MT-GLAZE 22K JA 1/10W
R1031	401 038 2200	MT-GLAZE 27K JA 1/10W
COIL		
L1002	610 252 0170	PEAKING COIL 3.3UHK
DIODE		
D1001	407 048 1103	ZENER DIODE EQA02-05D
	407 053 6308	ZENER DIODE MTZ5.1B
MISCELLANEOUS		
K10C	645 008 3303	PLUG,6P
K10D	645 008 3327	PLUG,8P
X1001	610 249 6024	CRYSTAL OSCILLATOR

ASSY,PWB,A2 STEREO E7LT 1AA0B10E0550B

TRANSISTOR		
Q29A1	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q29A2	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q2941	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q2942	405 109 4506	TR BC858-B
	405 002 6706	TR 2SA1179-M6-TA
Q2961	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q2962	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
INTEGRATED CIRCUIT		
IC2901	409 316 3703	IC TDA3857
IC2904	409 316 5400	IC XC44131PB
CAPACITOR		
C29A1	403 069 9500	CERAMIC 0.01U Z 50V
C29A2	403 069 9500	CERAMIC 0.01U Z 50V
C29A3	403 069 9500	CERAMIC 0.01U Z 50V
C2900	403 069 9500	CERAMIC 0.01U Z 50V
C2901	403 248 2001	ELECT 4.7U M 25V
C2902	403 013 3004	CERAMIC 150P J 50V
C2904	403 059 6205	POLYESTER 0.022U K 50V
	403 179 2408	POLYESTER 0.022U K 50V
C2906	403 013 3004	CERAMIC 150P J 50V
C2907	403 069 9500	CERAMIC 0.01U Z 50V

Ref. No.	Part No.	Description		
C2908	403 258 3203	ELECT	22U M	16V
C2909	403 248 2803	ELECT	2.2U M	50V
C2911	403 248 2803	ELECT	2.2U M	50V
C2913	403 028 4409	CERAMIC	56P J	50V
C2916	403 069 9500	CERAMIC	0.01U Z	50V
C2917	403 248 1905	ELECT	10U M	16V
C2930	403 044 7309	ELECT	10U M	25V
C2935	403 258 3401	ELECT	10U M	25V
C2945	403 074 6600	CERAMIC	560P K	50V
C2947	403 072 8507	CERAMIC	330P K	50V
C2948	403 248 1400	ELECT	1U M	50V
C2950	403 024 2102	CERAMIC	39P J	50V
C2957	403 011 4904	CERAMIC	120P J	50V
C2959	403 257 0807	ELECT	0.47U M	50V
C2961	403 257 0807	ELECT	0.47U M	50V
C2962	403 248 1905	ELECT	10U M	16V
C2963	403 152 4702	NP-ELECT	10U M	16V
C2964	403 152 4702	NP-ELECT	10U M	16V
C2966	403 257 0807	ELECT	0.47U M	50V
C2967	403 257 0807	ELECT	0.47U M	50V
C2968	403 233 0302	ELECT	100U M	16V
C2972	403 072 1607	CERAMIC	0.022U K	50V
C2973	403 069 1702	CERAMIC	1000P K	50V
C2974	403 233 0302	ELECT	100U M	16V
C2976	403 069 9500	CERAMIC	0.01U Z	50V
C2977	403 069 9500	CERAMIC	0.01U Z	50V
C2978	403 069 9500	CERAMIC	0.01U Z	50V
C2979	403 069 9500	CERAMIC	0.01U Z	50V
RESISTOR				
R29A1	401 038 6406	MT-GLAZE	4.7K JA	1/10W
R29A2	401 038 6406	MT-GLAZE	4.7K JA	1/10W
R29A3	401 038 0701	MT-GLAZE	2.2K JA	1/10W
R29A4	401 038 6406	MT-GLAZE	4.7K JA	1/10W
R29A5	401 038 7601	MT-GLAZE	560 JA	1/10W
R29A6	401 038 7601	MT-GLAZE	560 JA	1/10W
R29A7	401 038 6406	MT-GLAZE	4.7K JA	1/10W
R2902	401 038 3603	MT-GLAZE	3.3K JA	1/10W
R2903	401 038 3603	MT-GLAZE	3.3K JA	1/10W
R2904	401 038 7601	MT-GLAZE	560 JA	1/10W
R2906	401 038 7601	MT-GLAZE	560 JA	1/10W
R2933	401 037 5004	MT-GLAZE	0.000 ZA	1/10W
R2934	401 038 0701	MT-GLAZE	2.2K JA	1/10W
R2938	401 037 5004	MT-GLAZE	0.000 ZA	1/10W
R2939	401 038 0701	MT-GLAZE	2.2K JA	1/10W
R2941	401 038 6505	MT-GLAZE	47K JA	1/10W
R2942	401 037 5608	MT-GLAZE	10K JA	1/10W
R2943	401 038 7700	MT-GLAZE	5.6K JA	1/10W
R2944	401 037 6803	MT-GLAZE	12K JA	1/10W
R2945	401 038 5102	MT-GLAZE	3.9K JA	1/10W
R2946	401 037 5608	MT-GLAZE	10K JA	1/10W
R2947	401 037 9101	MT-GLAZE	180 JA	1/10W
R2948	401 037 5400	MT-GLAZE	1K JA	1/10W
R2949	401 226 2609	MT-FILM	191K FD	1/10W
R2951	401 038 8103	MT-GLAZE	6.8 JA	1/10W
R2952	401 038 6307	MT-GLAZE	470 JA	1/10W
R2953	401 037 5202	MT-GLAZE	100 JA	1/10W
R2954	401 037 5202	MT-GLAZE	100 JA	1/10W
R2961	401 037 5202	MT-GLAZE	100 JA	1/10W
R2962	401 038 7601	MT-GLAZE	560 JA	1/10W
R2963	401 037 5202	MT-GLAZE	100 JA	1/10W
R2964	401 038 7601	MT-GLAZE	560 JA	1/10W
R2966	401 037 5202	MT-GLAZE	100 JA	1/10W
R2968	401 037 5202	MT-GLAZE	100 JA	1/10W
TRANSFORMER				
T2901	610 037 5512	S COIL		
T2902	610 037 5512	S COIL		
T2903	610 037 4522	S COIL		
COIL				
L2904	645 008 2221	INDUCTOR,2.2U K		

Ref. No.	Part No.	Description
DIODE		
D2908	407 004 8009	DIODE DSB015-TA
MISCELLANEOUS		
K29A	645 008 3303	PLUG,6P
K29B	645 008 3228	PLUG,8P
X2900	421 002 4504	SAW F TSB5304
X2901	645 006 3022	CERAMIC FILTER 5.742MHZ
X2902	645 003 2806	CERAMIC FILTER
X2907	645 003 3155	OSC,CERAMIC 427KHZ

SERVICE REF. NO. C21EF34-01

C21EF34-01 differs from C21EF34-00 on following points, and others refer to C21EF34-00.

OUT OF CIRCUIT BOARD

Ref. No.	Part No.	Description
PICTURE TUBE		
⚠Q901	414 008 4807	CRT A51KQK23X(P)
COIL		
⚠L901	645 002 5624	COIL,DEGAUSSING
	645 002 5631	COIL,DEGAUSSING

ASSY,PWB,MAIN E7RTS 1AA0B10E003B0

Ref. No.	Part No.	Description		
CAPACITOR				
⚠C420	404 064 4309	MT-POLYPRO	8600P J	1.5K
	404 063 4201	MT-POLYPRO	8600P J	1.5K
⚠C442	403 082 6906	POLYPRO	0.12U J	200V
RESISTOR				
R454	401 025 3807	CARBON	180 JA	1/6

ASSY,PWB,CRT E7RCS 1AA0B10E008B0

Ref. No.	Part No.	Description
MISCELLANEOUS		
⚠K601	610 217 6032	CRT SOCKET

SERVICE REF. NO. C25EG34-01

OUT OF CIRCUIT BOARD

Ref. No.	Part No.	Description
PICTURE TUBE		
/⚠Q901	414 007 1104	CRT A59ECY13X38
COIL		
/⚠L901	645 003 0031	COIL,DEGAUSSING
	645 003 0062	COIL,DEGAUSSING
MISCELLANEOUS		
SP901	610 232 3986	SPEAKER
	610 228 7202	SPEAKER
SP902	610 232 3986	SPEAKER
	610 228 7202	SPEAKER
/⚠W901	610 233 9567	AC CORD
W902	610 251 5831	ASSY,WIRE GND CONNECTOR E

ASSY,PWB,CRT E7PD
1AA0B10E00800

(Same as for C21EF34-00 see page 18)

ASSY,PWB,MAIN E7GT
1AA0B10E025A0

Ref. No.	Part No.	Description
TRANSISTOR		
Q101	405 013 3305	TR 2SC2216(SAN)
Q102	405 016 6204	TR 2SC3000-D
	405 016 6402	TR 2SC3000-E
	405 016 6600	TR 2SC3000-F
Q122	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q124	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q160	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q171	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q202	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q203	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q311	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q312	405 058 0208	TR 2SC3807-R-CTV-YA
Q313	405 018 9203	TR 2SC3895-T-CTV-YB
Q353	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q381	405 014 8408	TR 2SC2568(1)-K
	405 014 8507	TR 2SC2568(1)-L
	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
Q431	405 018 0507	TR 2SC3332-R
	405 018 0606	TR 2SC3332-S
Q432	405 095 0209	TR 2SD1556-3E
Q434	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q443	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q461	405 064 7307	TR 2SB1274-Q-RA
	405 064 7406	TR 2SB1274-R-RA
	405 064 7505	TR 2SB1274-S-RA
Q462	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q700	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q702	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q703	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q704	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q708	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q711	405 118 4207	TR PH2369
Q714	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q721	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q722	406 007 2106	TR JC546A
	406 007 2007	TR JC546B

Ref. No.	Part No.	Description
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q781	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q800	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q801	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q802	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q803	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q804	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q805	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q806	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q808	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q809	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q810	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
INTEGRATED CIRCUIT		
IC101	409 309 6209	IC TDA8361/N3
IC171	409 301 4906	IC TDA7263M
IC191	409 026 8609	IC L78M05-RA
IC270	409 291 0605	IC TDA4661/V2
	409 322 0505	IC TDA4662/V1
IC351	409 143 3402	IC AN78M12-LB
	409 026 9507	IC L78M12-RA
IC352	409 285 5203	IC L78M08-RA
IC451	409 192 5709	IC LA7833
IC701	410 178 3503	IC M37210M3-620SP
IC710	409 019 6209	IC LA7910

Ref. No.	Part No.	Description		
IC790	409 247 7702	IC ST24C02AB1		
	409 257 7204	IC X24C02P		
	409 281 8307	IC 24C02A/P		
IC801	409 051 3006	IC TC4053BP		
CAPACITOR				
C101	403 233 0302	ELECT	100U M	16V
C102	403 248 2001	ELECT	4.7U M	25V
C103	403 248 2001	ELECT	4.7U M	25V
C104	403 248 2001	ELECT	4.7U M	25V
C105	403 248 1400	ELECT	1U M	50V
C106	403 248 2001	ELECT	4.7U M	25V
C108	403 030 5401	CERAMIC	68P J	50V
C109	403 033 3602	CERAMIC	82P J	50V
C110	403 024 0009	CERAMIC	39P J	50V
C111	403 026 9703	CERAMIC	5P C	50V
C112	403 026 9703	CERAMIC	5P C	50V
C113	403 069 8305	CERAMIC	0.01U Z	50V
C114	403 069 8305	CERAMIC	0.01U Z	50V
C115	403 069 8305	CERAMIC	0.01U Z	50V
C117	403 248 1608	ELECT	47U M	16V
C121	403 270 2901	MT-POLYEST	0.1U K	63V
	403 237 8007	MT-COMPO	0.1U J	50V
C122	403 270 2901	MT-POLYEST	0.1U K	63V
	403 237 8007	MT-COMPO	0.1U J	50V
C127	403 069 0507	CERAMIC	1000P K	50V
C128	403 050 0509	ELECT	2.2U M	50V
C129	403 028 2009	CERAMIC	56P J	50V
C130	403 069 8305	CERAMIC	0.01U Z	50V
C131	403 248 1608	ELECT	47U M	16V
C132	403 270 2901	MT-POLYEST	0.1U K	63V
	403 237 8007	MT-COMPO	0.1U J	50V
C133	403 024 9705	CERAMIC	4P C	50V
C135	403 270 2901	MT-POLYEST	0.1U K	63V
	403 237 8007	MT-COMPO	0.1U J	50V
C136	403 194 4609	ELECT	470U M	16V
C137	403 270 2901	MT-POLYEST	0.1U K	63V
	403 237 8007	MT-COMPO	0.1U J	50V
C160	403 056 9704	POLYESTER	0.01U J	50V
	403 178 9309	POLYESTER	0.01U J	50V
C170	403 069 8305	CERAMIC	0.01U Z	50V
C171	403 070 4600	CERAMIC	1200P K	50V
C172	403 070 4600	CERAMIC	1200P K	50V
C173	403 270 3601	MT-POLYEST	0.33U K	63V
	403 260 2904	MT-COMPO	0.33U J	50V
C174	403 270 3601	MT-POLYEST	0.33U K	63V
	403 260 2904	MT-COMPO	0.33U J	50V
C175	403 258 3609	ELECT	33U M	25V
C176	403 258 3609	ELECT	33U M	25V
C177	403 270 3403	MT-POLYEST	0.22U K	63V
	403 237 7901	MT-COMPO	0.22U J	50V
C178	403 270 3403	MT-POLYEST	0.22U K	63V
	403 237 7901	MT-COMPO	0.22U J	50V
C179	403 196 0203	ELECT	2200U M	35V
C180	403 270 3403	MT-POLYEST	0.22U K	63V
	403 237 7901	MT-COMPO	0.22U J	50V
C181	403 270 3403	MT-POLYEST	0.22U K	63V
	403 237 7901	MT-COMPO	0.22U J	50V
C182	403 196 0203	ELECT	2200U M	35V
C183	403 196 0203	ELECT	2200U M	35V
C188	403 248 2001	ELECT	4.7U M	25V
C189	403 248 1608	ELECT	47U M	16V
C191	403 258 3401	ELECT	10U M	25V
C192	403 258 3401	ELECT	10U M	25V
C193	403 244 1206	ELECT	100U M	10V
C202	403 270 2901	MT-POLYEST	0.1U K	63V
	403 237 8007	MT-COMPO	0.1U J	50V
C203	403 061 8303	POLYESTER	4700P K	50V
	403 179 1104	POLYESTER	4700P K	50V
C204	403 270 2901	MT-POLYEST	0.1U K	63V
	403 237 8007	MT-COMPO	0.1U J	50V
C205	403 270 2901	MT-POLYEST	0.1U K	63V

Ref. No.	Part No.	Description			Ref. No.	Part No.	Description		
	403 237 8007	MT-COMPO	0.1U J	50V	C405	403 060 0704	POLYESTER	2700P K	50V
C206	403 270 3809	MT-POLYEST	0.047U K	63V		403 179 2200	POLYESTER	2700P K	50V
	403 225 2703	MT-COMPO	0.047U J	50V	C406	403 059 6205	POLYESTER	0.022U K	50V
C207	403 248 2803	ELECT	2.2U M	50V		403 179 2408	POLYESTER	0.022U K	50V
C208	403 270 2901	MT-POLYEST	0.1U K	63V	C407	403 233 0302	ELECT	100U M	16V
	403 237 8007	MT-COMPO	0.1U J	50V	⚠C420	404 060 7809	MT-POLYPRO	6000P J	1.5K
C209	403 270 2901	MT-POLYEST	0.1U K	63V		404 060 7908	MT-POLYPRO	6000P J	1.5K
	403 237 8007	MT-COMPO	0.1U J	50V	C421	403 218 3106	ELECT	1000U M	16V
C210	403 270 2901	MT-POLYEST	0.1U K	63V	C422	403 082 6906	POLYPRO	0.12U J	200V
	403 237 8007	MT-COMPO	0.1U J	50V	⚠C423	404 040 8109	MT-POLYPRO	5600P J	1.5K
C211	403 248 2803	ELECT	2.2U M	50V		404 040 7805	MT-POLYPRO	5600P J	1.5K
C212	403 248 2803	ELECT	2.2U M	50V	C424	403 083 4901	POLYPRO	0.027U J	400V
C213	403 057 0601	POLYESTER	0.01U K	50V	C425	403 083 4307	POLYPRO	0.022U J	400V
	403 179 3801	POLYESTER	0.01U K	50V	C426	403 066 6106	MT-POLYEST	0.47U J	250V
C215	403 270 3908	MT-POLYEST	0.47U K	63V	C430	403 075 7101	CERAMIC	1000P K	500V
	403 256 0808	MT-COMPO	0.47U J	50V	C431	403 270 4004	MT-POLYEST	0.056U K	63V
C216	403 270 2901	MT-POLYEST	0.1U K	63V		403 260 3109	MT-COMPO	0.056U J	50V
	403 237 8007	MT-COMPO	0.1U J	50V	C432	403 075 7101	CERAMIC	1000P K	500V
C220	403 069 8305	CERAMIC	0.01U Z	50V	C433	403 076 3102	CERAMIC	3900P K	500V
C221	403 270 2901	MT-POLYEST	0.1U K	63V	C434	403 229 1207	ELECT	47U M	35V
	403 237 8007	MT-COMPO	0.1U J	50V	C441	403 082 8009	POLYPRO	0.2U J	200V
C231	403 194 2100	NP-ELECT	4.7U M	100V	C442	403 082 6906	POLYPRO	0.12U J	200V
C232	403 138 1602	ELECT	1U M	100V	C443	403 201 5001	ELECT	330U M	16V
C233	403 075 8009	CERAMIC	0.01U K	500V	C444	403 259 8801	ELECT	0.47U M	160V
C270	403 059 6205	POLYESTER	0.022U K	50V	C451	403 148 2002	ELECT	470U M	35V
	403 179 2408	POLYESTER	0.022U K	50V	C452	403 217 1103	ELECT	220U M	35V
C271	403 069 0507	CERAMIC	1000P K	50V	C453	403 023 9706	CERAMIC	39P J	50V
C272	403 069 0507	CERAMIC	1000P K	50V	C454	403 069 8305	CERAMIC	0.01U Z	50V
C275	403 248 1905	ELECT	10U M	16V	C455	403 075 7101	CERAMIC	1000P K	500V
⚠C301	404 047 3602	MT-POLYEST	0.1U M	125V	C456	403 233 0807	ELECT	10U M	50V
	404 044 0901	MT-COMPO	0.1U M	250V	C458	403 233 0807	ELECT	10U M	50V
⚠C302	404 047 3602	MT-POLYEST	0.1U M	125V	C459	403 065 9801	MT-POLYEST	0.22U K	100V
	404 044 0901	MT-COMPO	0.1U M	250V	C461	403 155 1203	ELECT	3300U M	25V
C303	403 076 7100	CERAMIC	1000P M	1K	C462	403 049 0008	ELECT	1U M	50V
C304	403 076 7100	CERAMIC	1000P M	1K	C463	403 102 8408	MT-POLYEST	0.1U K	100V
C305	403 076 7100	CERAMIC	1000P M	1K	C464	403 257 0807	ELECT	0.47U M	50V
C306	403 076 7100	CERAMIC	1000P M	1K	C465	403 066 0104	MT-POLYEST	2.2U K	100V
C307	404 047 1608	ELECT	270U M	400V	C466	403 270 2901	MT-POLYEST	0.1U K	63V
C314	403 270 2901	MT-POLYEST	0.1U K	63V		403 237 8007	MT-COMPO	0.1U J	50V
	403 237 8007	MT-COMPO	0.1U J	50V	C467	403 241 3807	ELECT	220U M	10V
C315	403 058 2604	POLYESTER	0.015U J	50V	C468	403 258 3500	ELECT	22U M	25V
	403 179 3207	POLYESTER	0.015U J	50V	C469	403 233 0807	ELECT	10U M	50V
C316	403 165 8407	CERAMIC	680P K	2K	C470	403 069 8305	CERAMIC	0.01U Z	50V
	403 186 1104	CERAMIC	680P K	2K	C700	403 068 9006	CERAMIC	100P K	50V
C317	403 059 6205	POLYESTER	0.022U K	50V	C701	403 248 2001	ELECT	4.7U M	25V
	403 179 2408	POLYESTER	0.022U K	50V	C704	403 068 9006	CERAMIC	100P K	50V
⚠C331	404 060 6505	CERAMIC	2200P M	400V	C705	403 068 9006	CERAMIC	100P K	50V
	404 060 6604	CERAMIC	2200P M	400V	C706	403 068 9006	CERAMIC	100P K	50V
C351	403 165 9305	CERAMIC	680P K	1K	C707	403 270 3403	MT-POLYEST	0.22U K	63V
	403 185 9101	CERAMIC	680P K	1K		403 237 7901	MT-COMPO	0.22U J	50V
C352	403 165 8605	CERAMIC	470P K	2K	C708	403 270 3403	MT-POLYEST	0.22U K	63V
	403 232 1805	CERAMIC	470P K	2K		403 237 7901	MT-COMPO	0.22U J	50V
C353	403 165 6106	CERAMIC	470P K	1K	C710	403 068 9006	CERAMIC	100P K	50V
	403 186 2903	CERAMIC	470P K	1K	C711	403 248 2001	ELECT	4.7U M	25V
C354	403 186 3108	CERAMIC	390P K	1K	C712	403 248 1400	ELECT	1U M	50V
C361	404 055 9801	ELECT	220U M	200V	C713	403 248 1400	ELECT	1U M	50V
C362	403 281 1108	ELECT	22U M	250V	C716	403 233 1507	ELECT	4.7U M	50V
C363	403 210 5504	ELECT	470U M	35V	C717	403 068 9006	CERAMIC	100P K	50V
C364	403 148 0404	ELECT	1000U M	25V	C718	403 069 8305	CERAMIC	0.01U Z	50V
C365	403 158 1309	ELECT	2200U M	35V	C719	403 069 0507	CERAMIC	1000P K	50V
C371	403 194 4609	ELECT	470U M	16V	C721	403 270 2901	MT-POLYEST	0.1U K	63V
C372	403 194 4609	ELECT	470U M	16V		403 237 8007	MT-COMPO	0.1U J	50V
C382	403 210 5504	ELECT	470U M	35V	C722	403 248 1608	ELECT	47U M	16V
C383	403 160 0000	ELECT	470U M	10V	C723	403 026 0700	CERAMIC	47P J	50V
C400	403 014 0200	CERAMIC	18P J	50V	C724	403 026 0700	CERAMIC	47P J	50V
C401	403 270 2901	MT-POLYEST	0.1U K	63V	C727	403 270 2901	MT-POLYEST	0.1U K	63V
	403 237 8007	MT-COMPO	0.1U J	50V		403 237 8007	MT-COMPO	0.1U J	50V
C402	403 270 3809	MT-POLYEST	0.047U K	63V	C729	403 248 1905	ELECT	10U M	16V
	403 225 2703	MT-COMPO	0.047U J	50V	C744	403 068 9006	CERAMIC	100P K	50V
C403	403 061 8303	POLYESTER	4700P K	50V	C801	403 068 9006	CERAMIC	100P K	50V
	403 179 1104	POLYESTER	4700P K	50V	C802	403 248 1905	ELECT	10U M	16V
C404	403 086 2300	NP-ELECT	1U M	50V	C804	403 068 9006	CERAMIC	100P K	50V

Ref. No.	Part No.	Description		
C805	403 248 1905	ELECT	10U M	16V
C806	403 248 1905	ELECT	10U M	16V
C808	403 068 9006	CERAMIC	100P K	50V
C810	403 068 9006	CERAMIC	100P K	50V
C811	403 248 1905	ELECT	10U M	16V
C812	403 068 9006	CERAMIC	100P K	50V
C814	403 248 1905	ELECT	10U M	16V
C816	403 068 9006	CERAMIC	100P K	50V
C817	403 270 3908	MT-POLYEST	0.47U K	63V
	403 256 0808	MT-COMPO	0.47U J	50V
C818	403 248 1905	ELECT	10U M	16V
C819	403 248 1905	ELECT	10U M	16V
C820	403 248 1905	ELECT	10U M	16V
C821	403 258 3401	ELECT	10U M	25V
C822	403 044 7309	ELECT	10U M	25V
RESISTOR				
R101	401 025 7805	CARBON	2.2K JA	1/6W
R102	401 026 9303	CARBON	47 JA	1/6W
R103	401 012 4503	CARBON	100 JA	1/4W
R104	401 027 2600	CARBON	5.6K JA	1/6W
R105	401 024 7004	CARBON	1K JA	1/6W
R106	401 025 7409	CARBON	220 JA	1/6W
R107	401 026 0409	CARBON	27 JA	1/6W
R108	401 026 3905	CARBON	330 JA	1/6W
R121	401 027 0309	CARBON	47K JA	1/6W
R122	401 025 8703	CARBON	220K JA	1/6W
R123	401 025 8703	CARBON	220K JA	1/6W
R124	401 027 5502	CARBON	6.8K JA	1/6W
R126	401 027 2600	CARBON	5.6K JA	1/6W
R127	401 024 6700	CARBON	100 JA	1/6W
R131	401 022 3107	CARBON	6.8K JA	1/4W
R132	401 020 2904	CARBON	47K JA	1/4W
R133	401 025 3807	CARBON	180 JA	1/6W
R134	401 012 5708	CARBON	1K JA	1/4W
R135	401 027 2303	CARBON	560 JA	1/6W
R136	401 027 0309	CARBON	47K JA	1/6W
R138	401 025 1308	CARBON	150 JA	1/6W
R160	401 027 0309	CARBON	47K JA	1/6W
R161	401 026 1000	CARBON	2.7K JA	1/6W
R162	401 026 4605	CARBON	33K JA	1/6W
R163	401 026 9907	CARBON	4.7K JA	1/6W
R171	401 019 9600	CARBON	47 JA	1/4W
R172	401 010 1504	CARBON	4.7 JA	1/2W
R173	401 016 3809	CARBON	2.2K JA	1/4W
R174	401 010 1504	CARBON	4.7 JA	1/2W
R175	401 019 9600	CARBON	47 JA	1/4W
R176	401 016 3809	CARBON	2.2K JA	1/4W
R178	401 025 7805	CARBON	2.2K JA	1/6W
R180	401 024 7400	CARBON	10K JA	1/6W
R181	401 024 7400	CARBON	10K JA	1/6W
R182	401 024 7400	CARBON	10K JA	1/6W
R189	401 024 7400	CARBON	10K JA	1/6W
R191	401 025 8208	CARBON	22K JA	1/6W
R202	401 024 7707	CARBON	100K JA	1/6W
R203	401 012 4503	CARBON	100 JA	1/4W
R204	401 012 4503	CARBON	100 JA	1/4W
R205	401 012 4503	CARBON	100 JA	1/4W
R206	401 024 6700	CARBON	100 JA	1/6W
R207	401 024 6700	CARBON	100 JA	1/6W
R208	401 024 6700	CARBON	100 JA	1/6W
R209	401 022 3107	CARBON	6.8K JA	1/4W
R210	401 025 1902	CARBON	15K JA	1/6W
R212	401 025 4200	CARBON	1.8K JA	1/6W
R213	401 016 4806	CARBON	22K JA	1/4W
R215	401 025 4200	CARBON	1.8K JA	1/6W
R216	401 012 7009	CARBON	10K JA	1/4W
R219	401 019 1000	CARBON	390 JA	1/4W
R220	401 027 5007	CARBON	68 JA	1/6W
R221	401 024 6700	CARBON	100 JA	1/6W
R231	401 014 6109	CARBON	150K JA	1/4W
R232	401 012 5708	CARBON	1K JA	1/4W

Ref. No.	Part No.	Description		
R233	401 000 7509	SOLID	1.5K KA	1/2W
R234	401 024 7400	CARBON	10K JA	1/6W
R235	401 026 7408	CARBON	39K JA	1/6W
R275	401 025 7409	CARBON	220 JA	1/6W
⚠R301	401 008 8607	CARBON	220K JA	1/2W
R302	402 067 7709	WIRE WOUND	3.9 KA	7W
R311	401 027 2600	CARBON	5.6K JA	1/6W
R315	401 025 8208	CARBON	22K JA	1/6W
R317	401 024 7004	CARBON	1K JA	1/6W
R319	401 016 1508	CARBON	22 JA	1/4W
R320	401 007 5805	CARBON	120K JA	1/2W
R321	401 007 5805	CARBON	120K JA	1/2W
R322	401 014 5201	CARBON	15K JA	1/4W
R323	401 026 1000	CARBON	2.7K JA	1/6W
R324	401 068 2607	OXIDE-MT	47 JA	2W
R325	401 067 8204	OXIDE-MT	39 JA	2W
R326	401 017 1507	CARBON	2.7K GA	1/4W
⚠R331	402 000 8305	SOLID	5.6M KA	1/2W
⚠R332	402 000 8305	SOLID	5.6M KA	1/2W
R352	401 014 6109	CARBON	150K JA	1/4W
R353	401 027 4307	CARBON	6.2K JA	1/6W
R354	401 015 4708	CARBON	180K JA	1/4W
R355	401 011 2708	CARBON	68K JA	1/2W
R356	401 025 8208	CARBON	22K JA	1/6W
R362	402 067 8904	WIRE WOUND	3.9 KA	5W
R363	401 066 5006	OXIDE-MT	22 JA	2W
R364	401 069 0404	OXIDE-MT	6.8 JA	2W
R368	401 066 9004	OXIDE-MT	27 JA	2W
R382	401 026 4308	CARBON	3.3K JA	1/6W
R385	401 025 7409	CARBON	220 JA	1/6W
R393	401 024 9701	CARBON	12K JA	1/6W
R394	401 026 7606	CARBON	390K JA	1/6W
R400	401 027 0309	CARBON	47K JA	1/6W
R401	401 024 6700	CARBON	100 JA	1/6W
R402	401 027 6103	CARBON	680K JA	1/6W
R403	401 012 4503	CARBON	100 JA	1/4W
R404	401 025 8208	CARBON	22K JA	1/6W
R405	401 024 6700	CARBON	100 JA	1/6W
R406	401 026 7606	CARBON	390K JA	1/6W
R407	401 025 8208	CARBON	22K JA	1/6W
R408	401 012 4503	CARBON	100 JA	1/4W
R409	401 026 9907	CARBON	4.7K JA	1/6W
R410	401 025 8208	CARBON	22K JA	1/6W
R420	401 024 7400	CARBON	10K JA	1/6W
R422A	402 067 8805	WIRE WOUND	10 KA	5W
R432	401 024 7004	CARBON	1K JA	1/6W
R433	401 007 1104	CARBON	1K JA	1/2W
R434	401 067 9003	OXIDE-MT	390 JA	2W
R436	401 014 5201	CARBON	15K JA	1/4W
R441	401 058 3706	OXIDE-MT	1K JA	1W
R444	401 024 6700	CARBON	100 JA	1/6W
R445	401 024 7707	CARBON	100K JA	1/6W
R446	401 015 4708	CARBON	180K JA	1/4W
R448	401 065 2808	OXIDE-MT	120 JA	2W
R449	401 059 1602	OXIDE-MT	15 JA	1W
R450	401 027 3003	CARBON	56K JA	1/6W
R451	401 026 8108	CARBON	4.7 JA	1/6W
R452	401 026 7002	CARBON	3.9K JA	1/6W
R453	401 016 3809	CARBON	2.2K JA	1/4W
R454	401 027 8107	CARBON	82 JA	1/6W
R455	401 025 1605	CARBON	1.5K JA	1/6W
R456	401 020 2003	CARBON	4.7K JA	1/4W
R457	401 025 1605	CARBON	1.5K JA	1/6W
R458	401 059 2708	OXIDE-MT	150 JA	1W
R459	401 057 7408	OXIDE-MT	0.82 JA	1W
R460	401 010 7605	CARBON	560 JA	1/2W
R461	401 058 3607	OXIDE-MT	1K JA	1W
R462	401 014 4105	CARBON	1.5K JA	1/4W
R463	401 025 4200	CARBON	1.8K JA	1/6W
R467	401 027 3201	CARBON	560K JA	1/6W
R468	401 025 4200	CARBON	1.8K JA	1/6W
R469	401 027 5908	CARBON	68K JA	1/6W

Ref. No.	Part No.	Description			
R471	401 025 1605	CARBON	1.5K	JA	1/6W
R472	401 027 0309	CARBON	47K	JA	1/6W
R473	401 022 1905	CARBON	680	JA	1/4W
R474	401 009 0907	CARBON	270	JA	1/2W
R475	401 009 5803	CARBON	330	JA	1/2W
R476	401 025 7805	CARBON	2.2K	JA	1/6W
R477	401 021 3009	CARBON	5.6K	JA	1/4W
R479	401 016 3809	CARBON	2.2K	JA	1/4W
R480	401 027 0309	CARBON	47K	JA	1/6W
R481	401 064 5206	OXIDE-MT	1.5	JA	2W
R700	401 024 7400	CARBON	10K	JA	1/6W
R701	401 024 7400	CARBON	10K	JA	1/6W
R702	401 026 4308	CARBON	3.3K	JA	1/6W
R704	401 026 7002	CARBON	3.9K	JA	1/6W
R705	401 026 4308	CARBON	3.3K	JA	1/6W
R706	401 012 7009	CARBON	10K	JA	1/4W
R707	401 012 5708	CARBON	1K	JA	1/4W
R708	401 012 5708	CARBON	1K	JA	1/4W
R710	401 024 7400	CARBON	10K	JA	1/6W
R711	401 012 7009	CARBON	10K	JA	1/4W
R712	401 025 7805	CARBON	2.2K	JA	1/6W
R713	401 024 7400	CARBON	10K	JA	1/6W
R714	401 026 1307	CARBON	27K	JA	1/6W
R715	401 025 8208	CARBON	22K	JA	1/6W
R716	401 027 0309	CARBON	47K	JA	1/6W
R717	401 024 9305	CARBON	1.2K	JA	1/6W
R718	401 026 7002	CARBON	3.9K	JA	1/6W
R719	401 012 7009	CARBON	10K	JA	1/4W
R721	401 026 4605	CARBON	33K	JA	1/6W
R723	401 024 7004	CARBON	1K	JA	1/6W
R724	401 024 7400	CARBON	10K	JA	1/6W
R726	401 024 7400	CARBON	10K	JA	1/6W
R727	401 024 7707	CARBON	100K	JA	1/6W
R731	401 026 6609	CARBON	390	JA	1/6W
R732	401 024 7400	CARBON	10K	JA	1/6W
R733	401 025 4200	CARBON	1.8K	JA	1/6W
R734	401 026 9907	CARBON	4.7K	JA	1/6W
R735	401 027 8602	CARBON	8.2K	JA	1/6W
R736	401 025 1605	CARBON	1.5K	JA	1/6W
R737	401 014 4105	CARBON	1.5K	JA	1/4W
R738	401 026 6609	CARBON	390	JA	1/6W
R743	401 025 1308	CARBON	150	JA	1/6W
R744	401 026 7002	CARBON	3.9K	JA	1/6W
R745	401 025 1308	CARBON	150	JA	1/6W
R746	401 026 7002	CARBON	3.9K	JA	1/6W
R758	401 027 2600	CARBON	5.6K	JA	1/6W
R759	401 025 7805	CARBON	2.2K	JA	1/6W
R760	401 019 1901	CARBON	3.9K	JA	1/4W
R761	401 068 4601	OXIDE-MT	4.7K	JA	2W
R762	401 024 7400	CARBON	10K	JA	1/6W
R763	401 025 1902	CARBON	15K	JA	1/6W
R764	401 025 4903	CARBON	180K	JA	1/6W
R767	401 024 6700	CARBON	100	JA	1/6W
R769	401 016 4806	CARBON	22K	JA	1/4W
R772	401 024 7004	CARBON	1K	JA	1/6W
R773	401 024 7004	CARBON	1K	JA	1/6W
R775	401 012 7009	CARBON	10K	JA	1/4W
R776	401 024 7707	CARBON	100K	JA	1/6W
R781	401 026 9907	CARBON	4.7K	JA	1/6W
R782	401 025 8208	CARBON	22K	JA	1/6W
R791	401 069 3603	OXIDE-MT	6.8K	JA	2W
R792	401 014 5201	CARBON	15K	JA	1/4W
R793	401 012 7009	CARBON	10K	JA	1/4W
R794	401 012 7009	CARBON	10K	JA	1/4W
R796	401 013 5301	CARBON	1.2K	JA	1/4W
R800	401 027 2303	CARBON	560	JA	1/6W
R801	401 024 7707	CARBON	100K	JA	1/6W
R803	401 024 7707	CARBON	100K	JA	1/6W
R804	401 025 7805	CARBON	2.2K	JA	1/6W
R805	401 027 5502	CARBON	6.8K	JA	1/6W
R806	401 027 8602	CARBON	8.2K	JA	1/6W
R807	401 024 7707	CARBON	100K	JA	1/6W
R808	401 025 7805	CARBON	2.2K	JA	1/6W
R809	401 027 2303	CARBON	560	JA	1/6W
R810	401 024 7707	CARBON	100K	JA	1/6W
R812	401 025 4606	CARBON	18K	JA	1/6W
R814	401 022 3107	CARBON	6.8K	JA	1/4W
R815	401 014 5201	CARBON	15K	JA	1/4W
R816	401 024 7400	CARBON	10K	JA	1/6W
R817	401 025 7805	CARBON	2.2K	JA	1/6W
R818	401 027 6608	CARBON	75	JA	1/6W
R819	401 025 8208	CARBON	22K	JA	1/6W
R820	401 026 1000	CARBON	2.7K	JA	1/6W
R822	401 025 4606	CARBON	18K	JA	1/6W
R823	401 027 5502	CARBON	6.8K	JA	1/6W
R824	401 026 9907	CARBON	4.7K	JA	1/6W
R825	401 021 3009	CARBON	5.6K	JA	1/4W
R826	401 024 7400	CARBON	10K	JA	1/6W
R827	401 027 6608	CARBON	75	JA	1/6W
R828	401 026 9907	CARBON	4.7K	JA	1/6W
R829	401 026 9600	CARBON	470	JA	1/6W
R830	401 012 7009	CARBON	10K	JA	1/4W
R831	401 027 6608	CARBON	75	JA	1/6W
R832	401 027 6608	CARBON	75	JA	1/6W
R835	401 025 8208	CARBON	22K	JA	1/6W
R837	401 027 6608	CARBON	75	JA	1/6W
R845	401 012 5708	CARBON	1K	JA	1/4W
R846	401 024 9305	CARBON	1.2K	JA	1/6W
R847	401 025 7805	CARBON	2.2K	JA	1/6W
R848	401 024 7707	CARBON	100K	JA	1/6W
R849	401 026 4308	CARBON	3.3K	JA	1/6W
R851	401 024 7707	CARBON	100K	JA	1/6W
R852	401 027 6608	CARBON	75	JA	1/6W
R853	401 024 6700	CARBON	100	JA	1/6W
R854	401 024 9305	CARBON	1.2K	JA	1/6W
R856	401 024 7400	CARBON	10K	JA	1/6W
R857	401 012 7009	CARBON	10K	JA	1/4W
R858	401 026 9600	CARBON	470	JA	1/6W
R860	401 024 7004	CARBON	1K	JA	1/6W
R861	401 027 9005	CARBON	82K	JA	1/6W
R862	401 027 9005	CARBON	82K	JA	1/6W
R863	401 027 9005	CARBON	82K	JA	1/6W
R864	401 023 3700	CARBON	82K	JA	1/4W
R866	401 027 5502	CARBON	6.8K	JA	1/6W
R867	401 027 8602	CARBON	8.2K	JA	1/6W

VARIABLE RESISTOR

VR120	610 237 8726	VR B-10K
	610 239 7550	VR B-10K
VR351	610 237 8702	VR B-2.2K
	610 239 7574	VR B-2K
VR401	610 237 8726	VR B-10K
	610 239 7550	VR B-10K
VR451	610 230 8013	VR B-100
	610 232 7892	VR B-100
VR462	610 230 7320	VR B-4.7K
	610 232 8448	VR B-5K

TRANSFORMER

T101	610 037 5727	S TRANS
T102	610 037 7103	S TRANS
T121	610 037 4522	S COIL
⚠T311	645 003 2998	TRANS,POWER,PULSE
⚠T381	610 033 3758	POWER TRANS
	610 240 4722	POWER TRANS
T431	610 000 1077	DRIVE TRANS
⚠T471	645 003 3094	TRANS,FLYBACK

COIL

L125	645 001 4567	INDUCTOR,10U K
⚠L301A	610 221 6912	LINE FILTER
L420	610 031 1039	INDUCTOR
L425	645 003 9782	INDUCTOR,22U K
L431	645 008 5628	INDUCTOR,1U M

Ref. No.	Part No.	Description
L441C	610 000 0858	LINEARITY COIL
	610 000 0872	LINEARITY COIL
L442	610 000 0070	COIL
L451	610 210 3908	PEAKING COIL 33UHK
	645 001 5748	INDUCTOR,33U K
L452	610 032 1243	INDUCTOR,150U K
	610 032 1250	INDUCTOR,150U
L461	610 031 1367	INDUCTOR 202J
L462	610 000 0261	COIL
	610 208 3781	COIL
L702	645 008 2894	INDUCTOR,5.6U K
L703	645 008 2894	INDUCTOR,5.6U K
L704	645 003 9782	INDUCTOR,22U K
L705	645 001 4697	INDUCTOR,1.5U M
L706	645 001 4567	INDUCTOR,10U K
L800	645 001 4567	INDUCTOR,10U K
L801	645 001 4567	INDUCTOR,10U K
L803	645 001 4567	INDUCTOR,10U K
L804	645 001 4567	INDUCTOR,10U K
DIODE		
D130	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D189	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D190	407 148 0105	ZENER DIODE EQA02-05A
	407 148 0204	ZENER DIODE EQA02-05B
	407 053 5806	ZENER DIODE MTZ4.7B
	407 053 5905	ZENER DIODE MTZ4.7C
D191	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D201	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D202	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D203	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D210	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D231	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D232	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D275	407 048 1202	ZENER DIODE EQA02-05E
	407 053 6407	ZENER DIODE MTZ5.1C
D302	407 005 7308	DIODE EM01Z
D303	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D304	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D305	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D306	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D314	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
⚠D315	407 105 8700	PHOTO COUPLE PC113B
D316	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D317	407 007 6606	DIODE ES1
	407 007 6903	DIODE ES1Z
	408 009 9008	DIODE BYD33D
D318	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471

Ref. No.	Part No.	Description
D319	407 048 3206	ZENER DIODE EQA02-07A
	407 048 3404	ZENER DIODE EQA02-07B
	407 053 7602	ZENER DIODE MTZ6.8B
	407 053 7701	ZENER DIODE MTZ6.8C
D351	407 007 7702	DIODE EU2A
D352	407 007 7504	DIODE EU1C
D353	407 007 7603	DIODE EU2
	407 007 7801	DIODE EU2Z
D354	407 106 2806	DIODE RU3YX
D355	407 103 1604	DIODE RU4YX LF-J3
D361	407 048 2407	ZENER DIODE EQA02-06E
	407 048 2605	ZENER DIODE EQA02-06F
	407 053 7206	ZENER DIODE MTZ6.2C
	407 053 7503	ZENER DIODE MTZ6.8A
D381	407 048 2001	ZENER DIODE EQA02-06B
	407 053 6803	ZENER DIODE MTZ5.6C
D384	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D391	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D392	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D393	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D401	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C
D431	407 048 4906	ZENER DIODE EQA02-09A
	407 048 5101	ZENER DIODE EQA02-09B
	407 053 8708	ZENER DIODE MTZ9.1A
	407 053 8807	ZENER DIODE MTZ9.1B
D432	407 007 6606	DIODE ES1
D433	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D434	407 005 7308	DIODE EM01Z
D438	407 095 8001	DIODE ERD07-15L
D439	407 006 4108	DIODE ERB44-04
D440	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D441	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D442	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D443	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D446	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D451	407 005 7308	DIODE EM01Z
	408 009 9008	DIODE BYD33D
D452	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D465	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D466	407 048 9000	ZENER DIODE EQA02-18A
	407 077 9705	ZENER DIODE MTZ20A
D467	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D468	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D469	407 007 7405	DIODE EU1
D471	407 118 2207	ZENER DIODE 1Z75
D701	407 120 9706	LED LN28RPL
D701A	610 255 3956	HOLDER LED-E7GC
D702	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D703	407 055 7907	ZENER DIODE RD3.6EL
D704	409 013 0104	IC HZT33
D705	407 075 9905	ZENER DIODE EQA03-11A
	407 063 8309	ZENER DIODE MTZJ11C

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D800	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D801	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D802	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D803	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D804	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D805	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D807	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D808	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D809	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D810	407 012 4406	DIODE 1SS133			
	407 012 5809	DIODE 1SS176			
D811	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D812	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D813	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D814	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
D816	407 075 9905	ZENER DIODE EQA03-11A			
	407 063 8309	ZENER DIODE MTZJ11C			
MISCELLANEOUS					
⚠F301	423 022 2102	FUSE 250V 4A			
A101	610 229 0110	UV VARACTOR TUNER			
A701	645 007 1546	UNIT,REMOCON RECEIVER			
	610 224 5806	RC PREAMP 409-1L			
K801	610 234 3779	SOCKET 21P			
K801Z	610 081 9887	SOCKET MTG BRKT-D8PC			
K802	645 000 1000	TERMINAL,BOARD			
⚠PS301	408 013 3801	TH PTH451C262BF140M270			
SW220	610 011 2728	SWITCH,LEVER 1P-3T			
⚠SW301	645 003 6811	SWITCH,PUSH POWER 2P-2T			
SW451	610 011 2728	SWITCH,LEVER 1P-3T			
SW701	610 011 4432	SWITCH,PUSH			
SW702	610 011 4432	SWITCH,PUSH			
SW703	610 011 4432	SWITCH,PUSH			
SW704	610 011 4432	SWITCH,PUSH			
SW705	610 011 4432	SWITCH,PUSH			
SW706	610 011 4432	SWITCH,PUSH			
X101	421 005 5102	SAW F TSF5315-2			
	421 002 2609	SAW F TSF5315			
X124	610 015 2854	TRAP,CERAMIC 5.5MHZ			
X400	610 249 5577	CRYSTAL OSCILLATOR			
X701	645 000 6692	OSC,CERAMIC 8.00MHZ			
	645 002 1039	OSC,CERAMIC 8.00MHZ			

ASSY,PWB,TEXT E7LT
1AA0B10E0550A

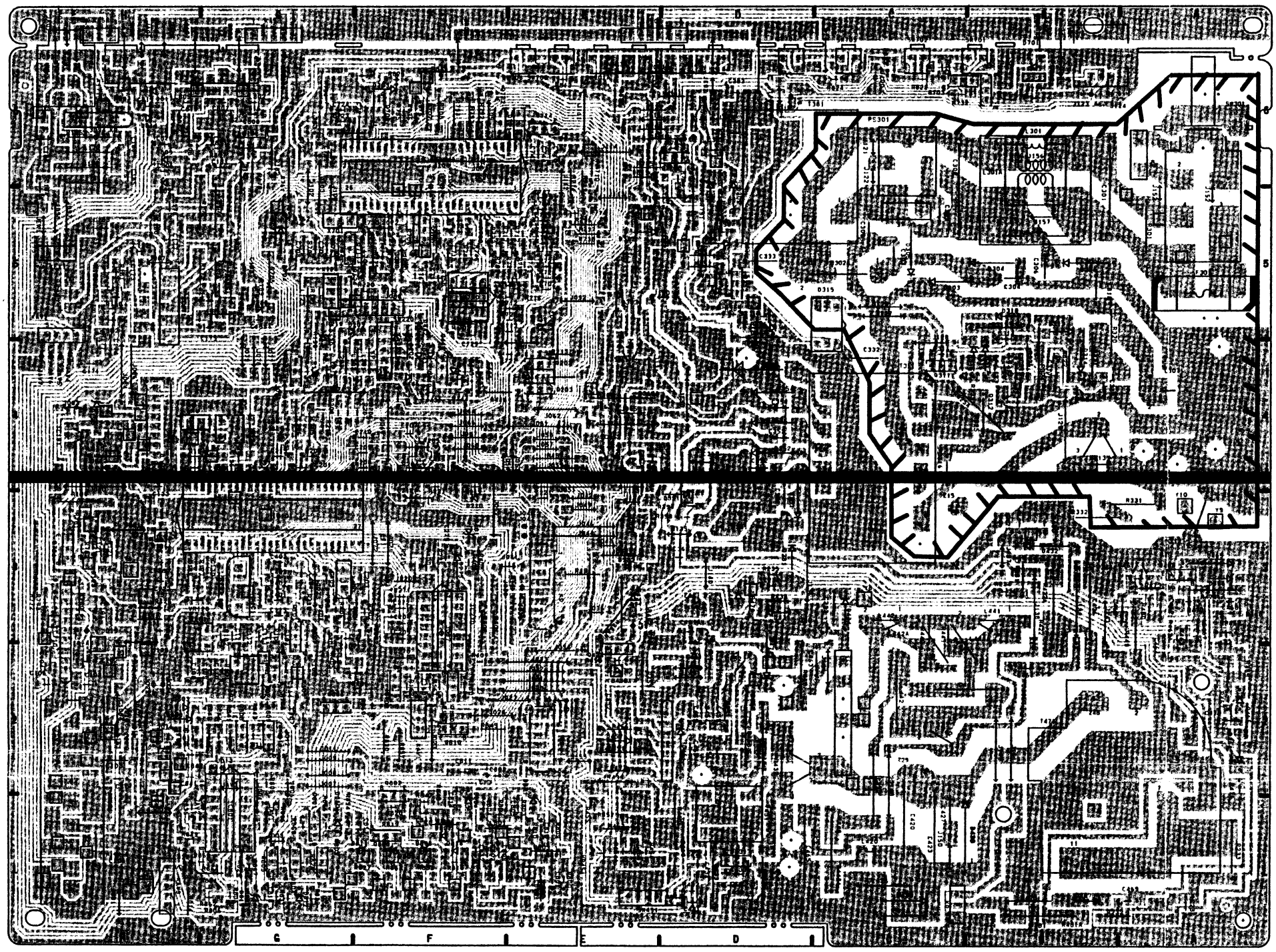
(Same as for C21EF34-00 see page 19)

ASSY,PWB,A2 STEREO E7LT
1AA0B10E05500

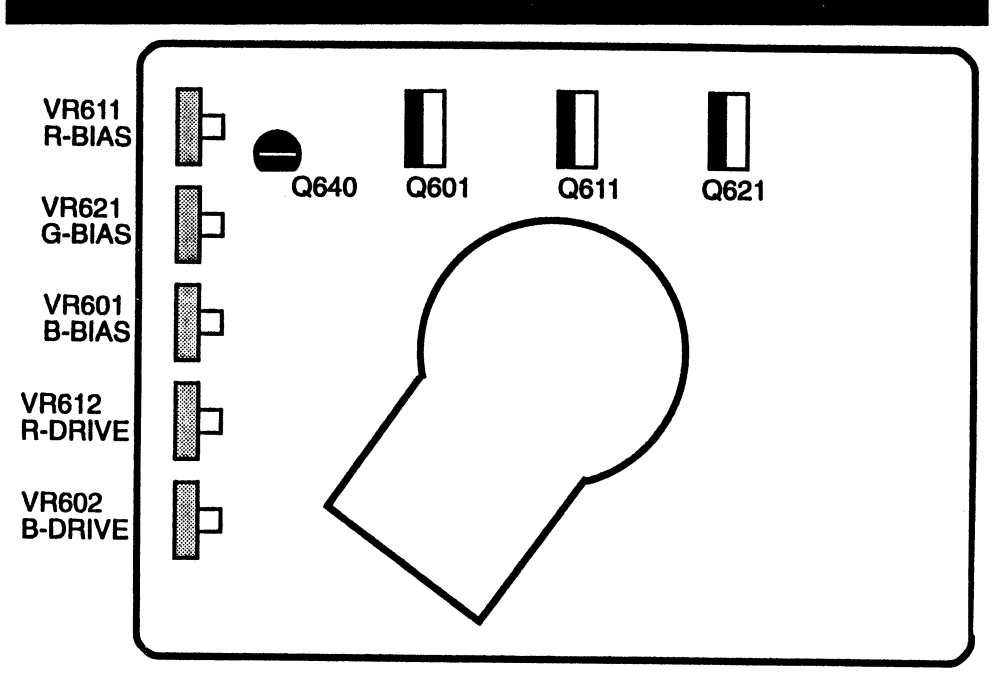
(Same as for C21EF34-00 see page 19/20)

Main board (Circuit side)/Pannello Principale (Lato del Circuito)

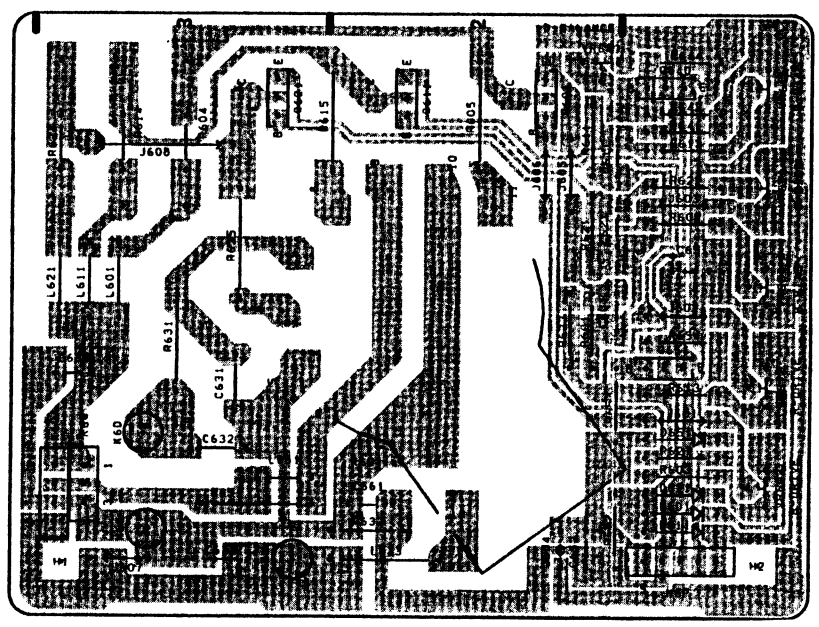
Main b



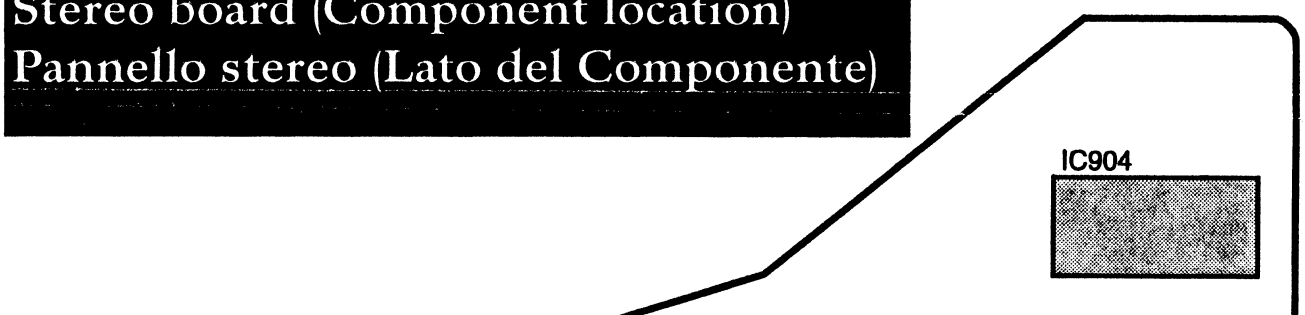
CRT board (Component location)/Pannello Cinescopio (Lato del Componente)



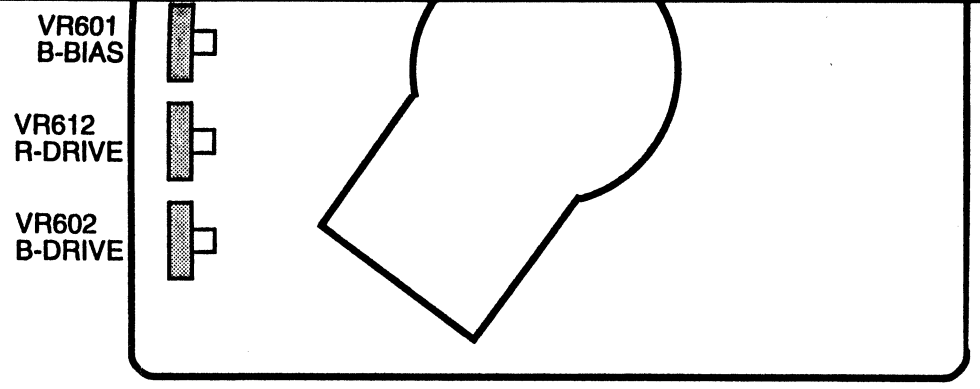
CRT board (Circuit side)/Pannello Cinescopia (Lato del Circuito)

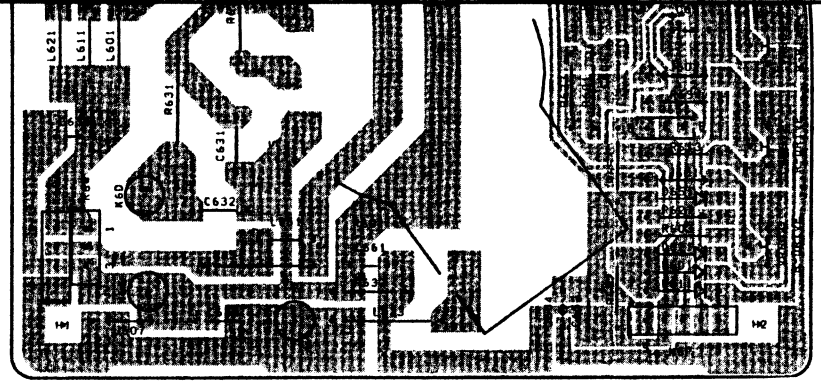


Stereo board (Component location) Pannello stereo (Lato del Componente)

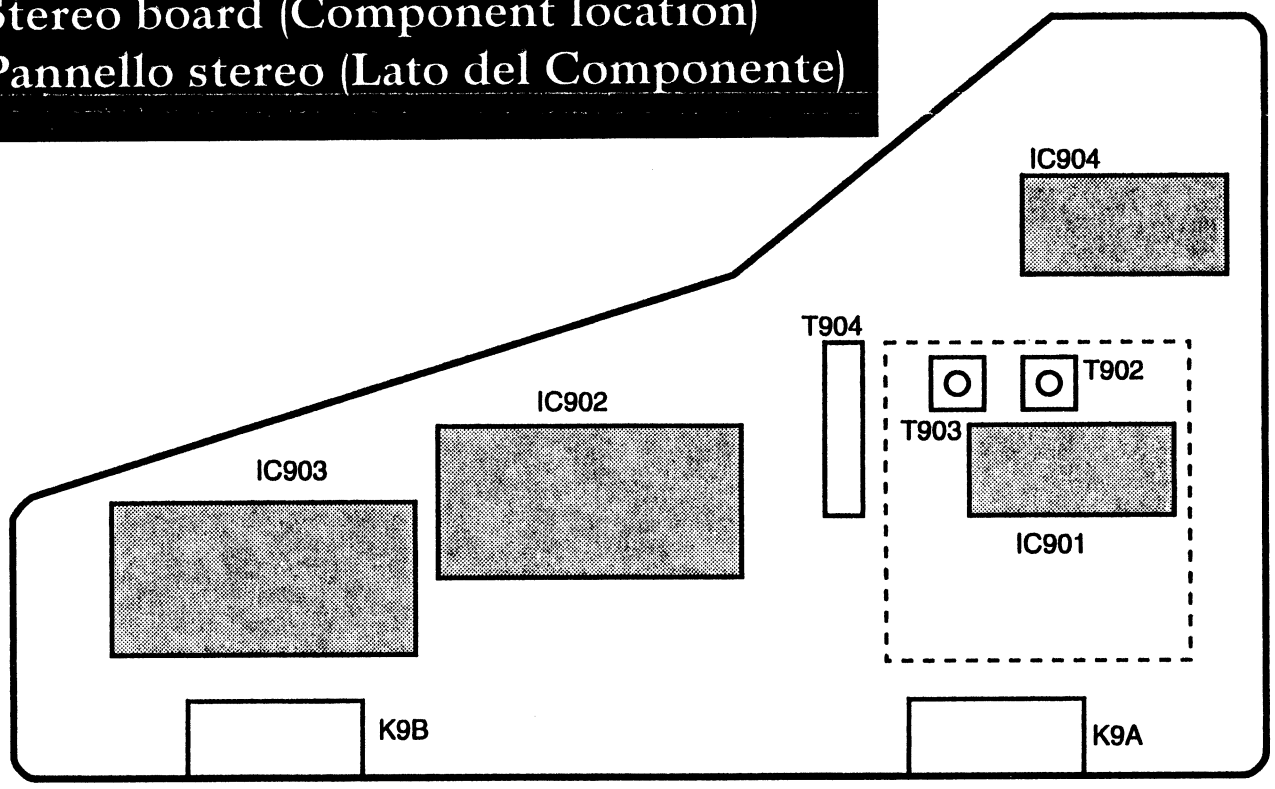


Stereo board (Circui Pannello Stereo (Lat

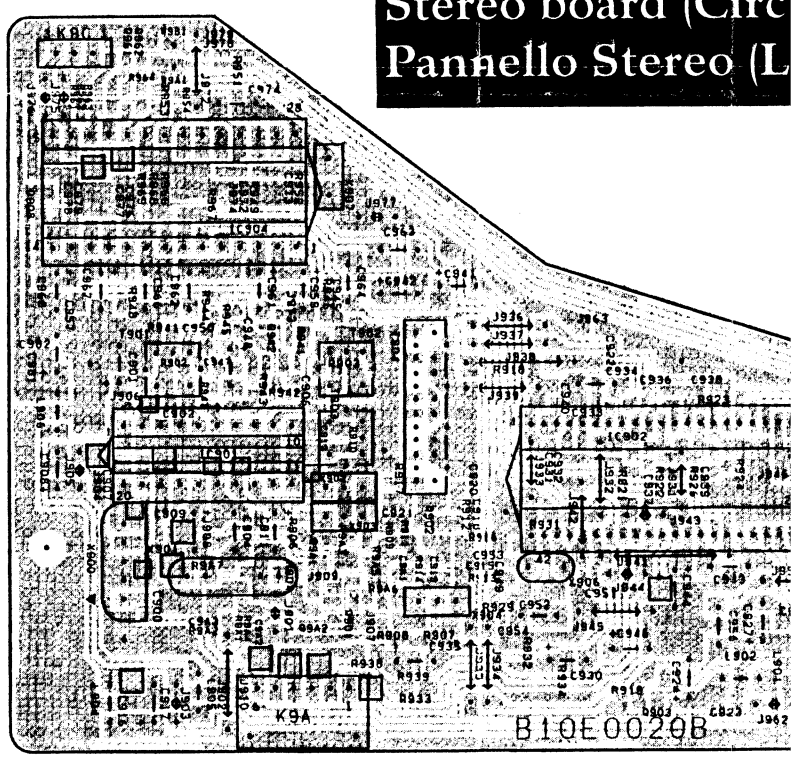


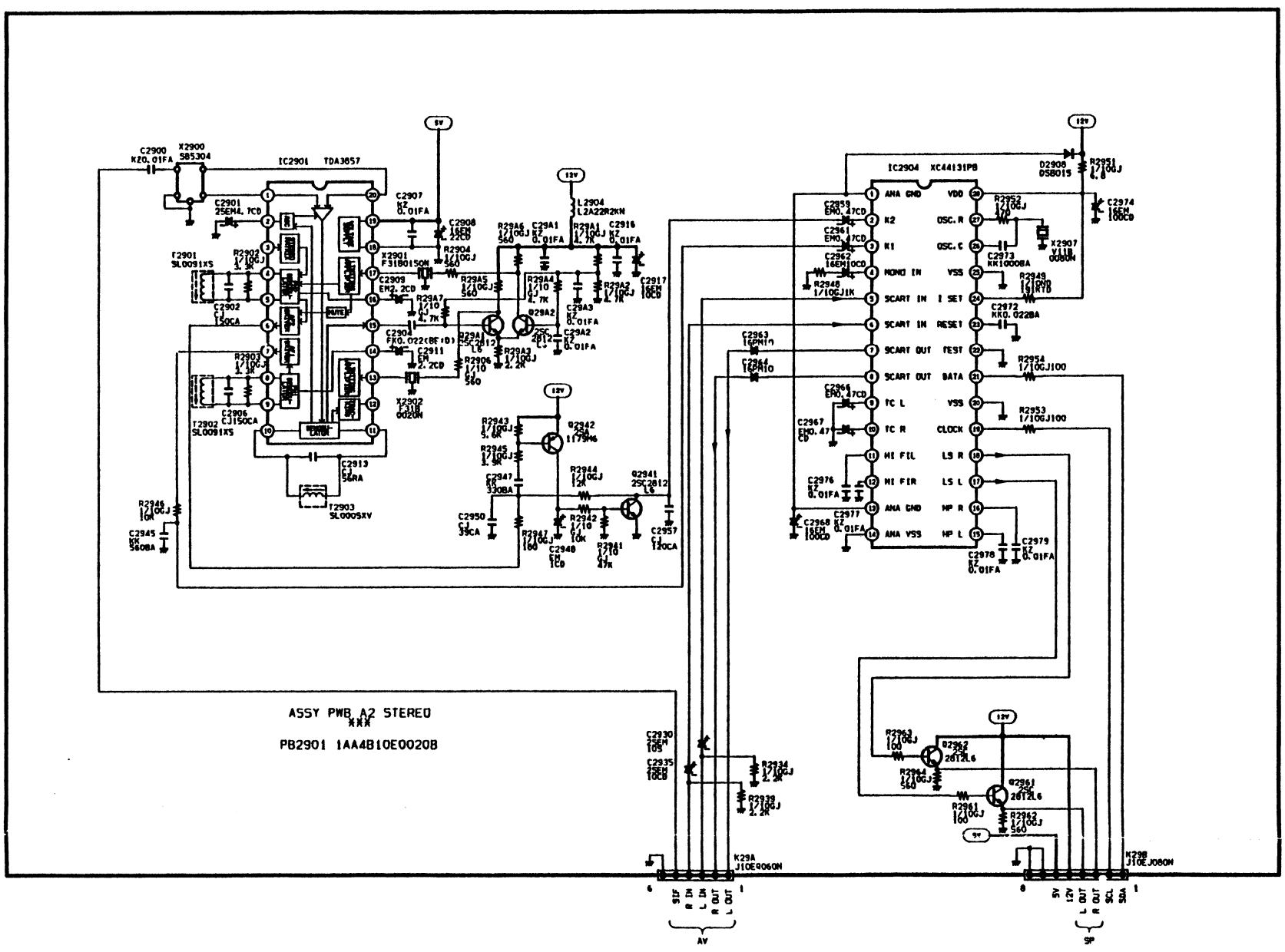


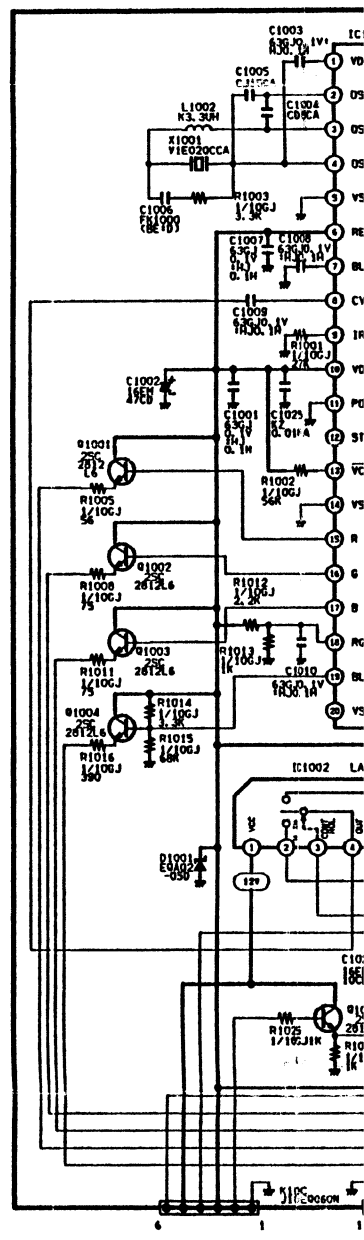
Stereo board (Component location)
Pannello stereo (Lato del Componente)

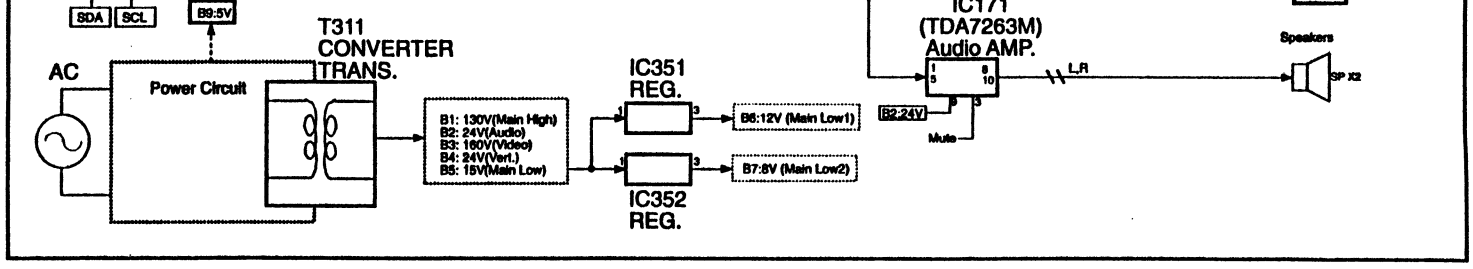


Stereo board (Circ
Pannello Stereo (L

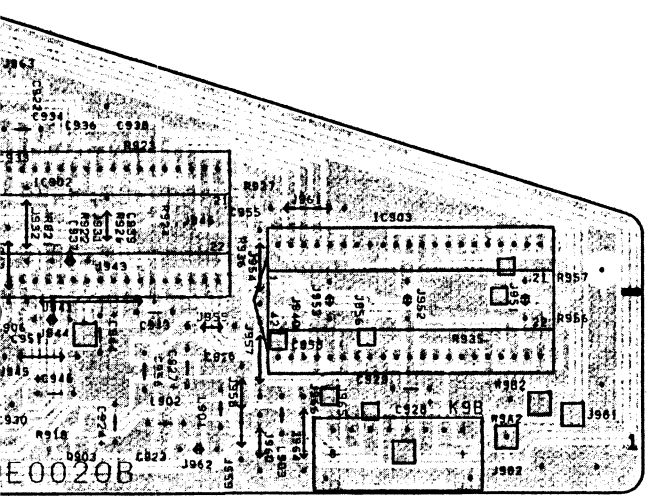




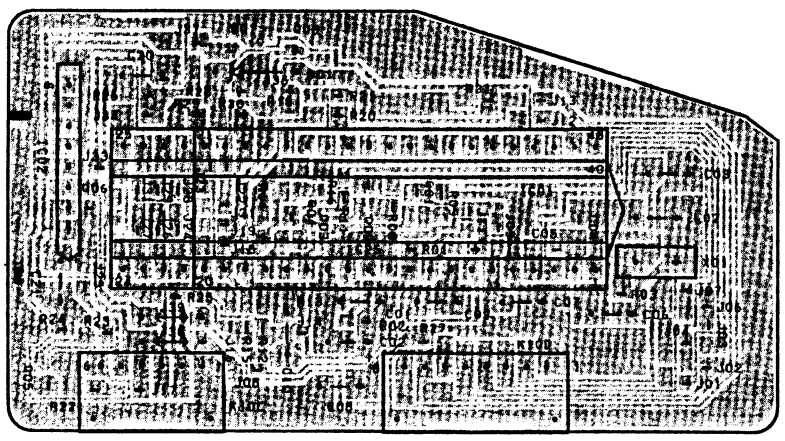


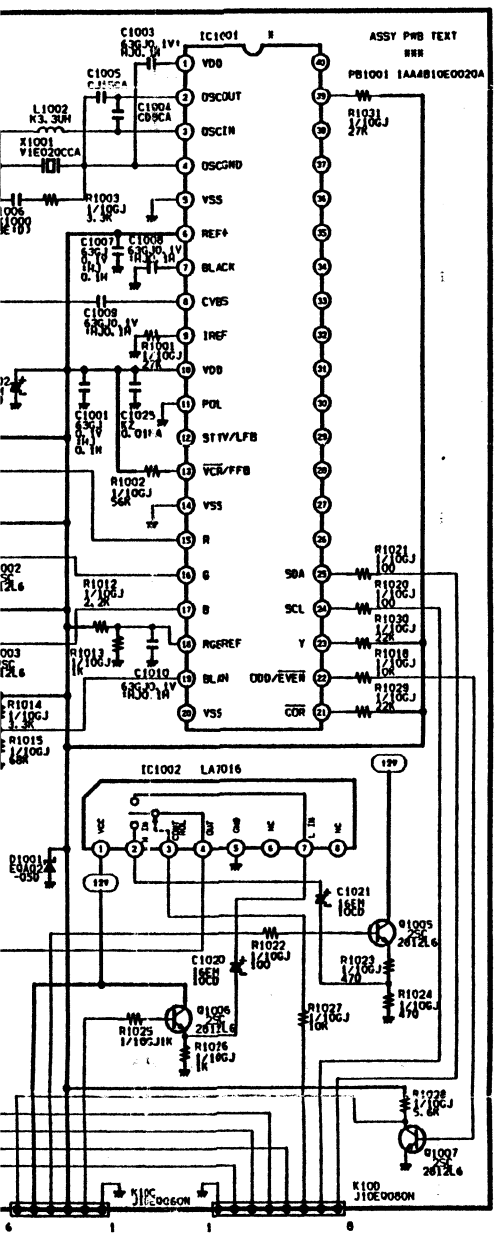


oard (Circuit side)
Stereo (Lato de Circuito)



Teletext board (Circuit side)
Pannello Televideo (Lato del Circuito)





AUDIO UNIT
(A2 stereo)

IC901

4.4V	1	20	4.4V
2.1V	2	19	4.4V
5.6V	3	18	0V
0V	4	17	11.7V
3.0V	5	16	5.7V
2.4V	6	15	5.7V
3.1V	7	14	2.1V
3.1V	8	13	2.1V
5.3V	9	12	5.3V
5.3V	10	11	5.3V

IC904

5.8V	1	28	3.4V
11.6V	2	27	3.4V
5.8V	3	26	3.4V
11.6V	4	25	3.4V
3.4V	5	24	5.8V
5.8V	6	23	5.8V
5.8V	7	22	5.8V
5.8V	8	21	5.8V
5.8V	9	20	4.9V
0V	10	19	5.0V
5.8V	11	18	5.8V
5.8V	12	17	5.8V
5.8V	13	16	4.9V
0V	14	15	5.0V

Q961	VOLT.
B	5.8V
C	11.6V
E	5.2V

Q962	VOLT.
B	5.8V
C	11.6V
E	5.2V

Q941	VOLT.
B	0V
C	2.5V
E	0V

Q942	VOLT.
B	11.6V
C	0V
E	11.6V

Q9A1	VOLT.
B	5.8V
C	11.6V
E	5.2V

Q9A2	VOLT.
B	5.8V
C	11.6V
E	5.8V

TELETEXT UNIT
TELEVIDEO

IC1001

4.7V	1	40	-
2.0V	2	39	4.5V
3.6V	3	38	-
0V	4	37	-
0V	5	36	-
0V	6	35	-
4.9V	7	34	-
2.2V	8	33	-
2.5V	9	32	-
4.9V	10	31	-
0V	11	30	-
2.2V	12	29	-
4.6V	13	28	-
0V	14	27	-
0V	15	26	-
0V	16	25	4.0V
0V	17	24	4.0V
0V	18	23	0V
0V	19	22	0V
0V	20	21	4.7V

Q1001	VOLT.
B	0V
C	4.9V
E	0V

Q1002	VOLT.
B	0V
C	4.9V
E	0V

Q1003	VOLT.
B	0V
C	4.9V
E	0V

Q1004	VOLT.
B	0V
C	4.9V
E	0V

Q1005	VOLT.
B	3.9V
C	11.7V
E	3.2V

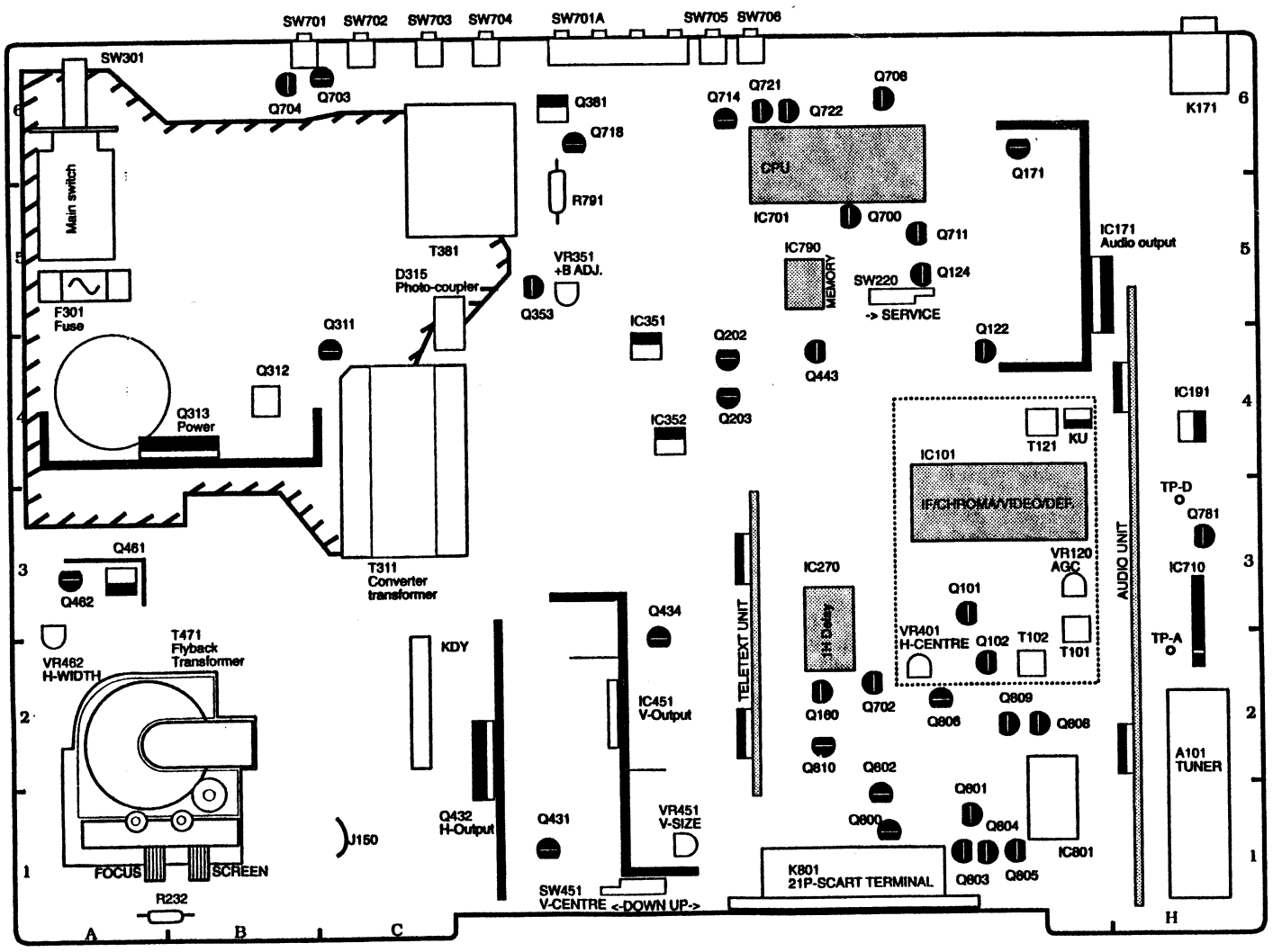
Q1006	VOLT.
B	5.7V
C	11.7V
E	5.1V

Q1007	VOLT.
B	0V
C	12.0V
E	0V

IC1002

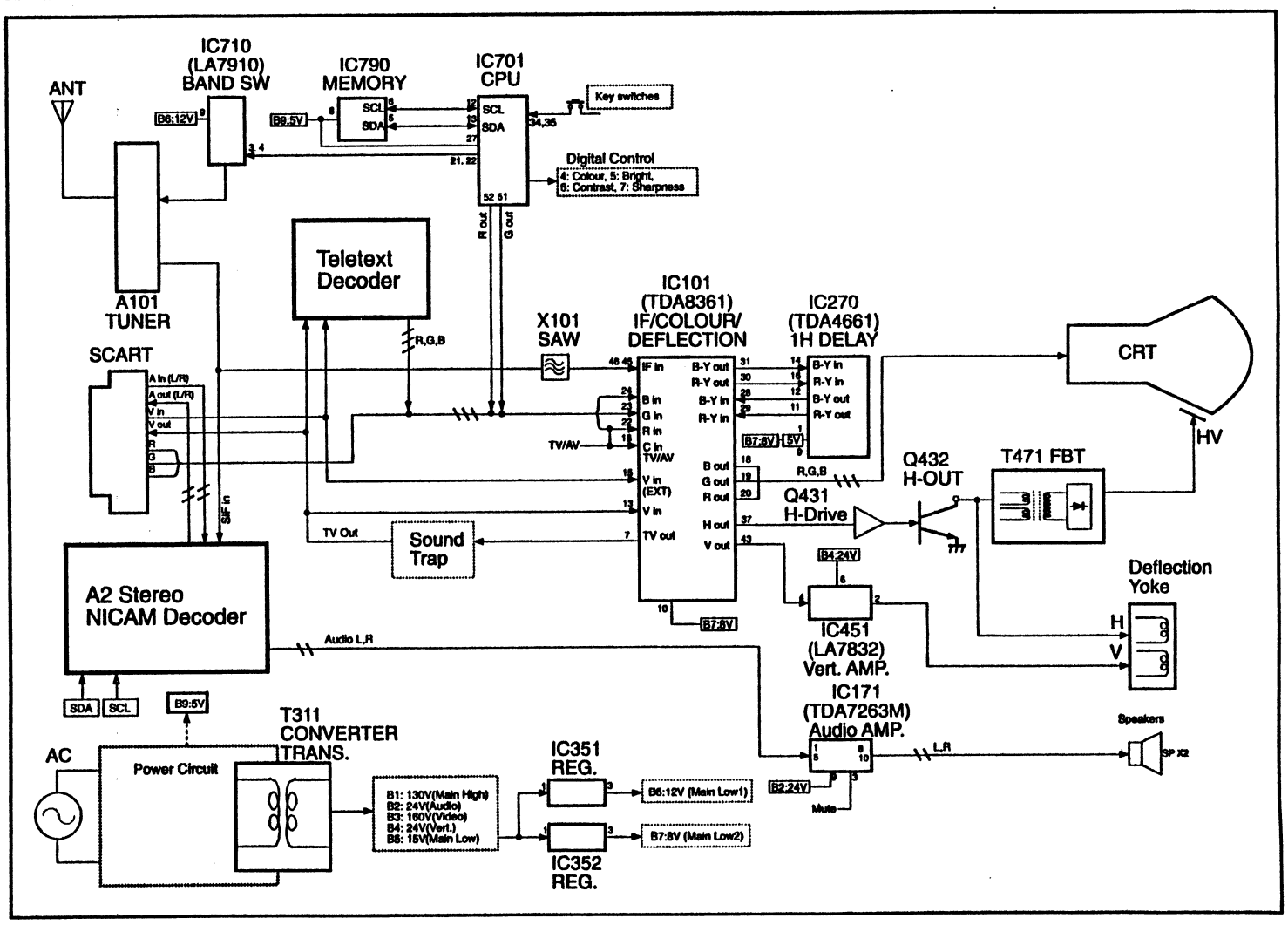
11.6V	1		
7.6V	2		
3.6V	3		
6.9V	4		
0V	5		
0V	6		
7.6V	7		
0V	8		

Main board (Component location)/Pannello Principale (Lato del Componente)

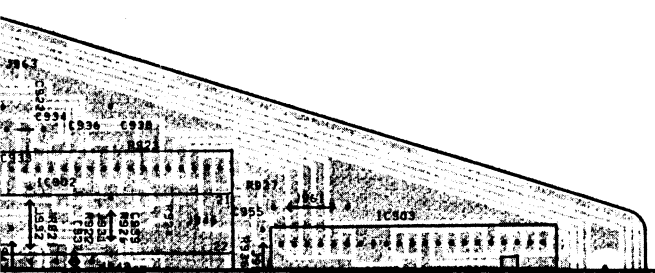


Block Diagram

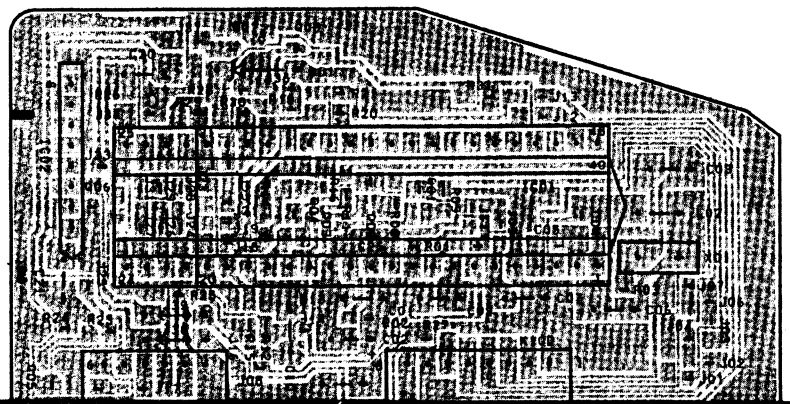
Note: This a general diagram covering all models



oard (Circuit side)
Stereo (Lato de Circuito)



Teletext board (Circuit side)
Pannello Televideo (Lato del Circuito)



CRT UNIT

Q601		
	VOLT.	WAVEFORM
B	2.0V	2.8Vp-p HORIZ.
C	143V	91Vp-p HORIZ.
E	1.5V	

Q611		
	VOLT.	WAVEFORM
B	2.2V	3.4Vp-p HORIZ.
C	144V	100Vp-p HORIZ.
E	1.8V	

Q621		
	VOLT.	WAVEFORM
B	2.1V	3.2Vp-p HORIZ.
C	145V	94Vp-p HORIZ.
E	1.7V	

Q640	
	VOLT.
B	0.9V
C	0V
E	1.5V

MAIN PCB UNIT

IC701

0.9V	1	52	0V
0.1V	2	51	0V
-	3	50	-
2.6V	4	49	-
3.4V	5	48	5.0V
2.9V	6	47	5.0V
1.2V	7	46	0V
0V	8	45	5.0V
3.7V	9	44	0V
0V	10	43	0V
4.8V	11	42	0V
4.8V	12	41	0V
4.9V	13	40	0V
3.7V	14	39	0V
5.0V	15	38	0V
5.0V	16	37	0V
0V	17	36	0.1V
0V	18	35	0V
0V	19	34	0V
5.0V	20	33	2.0V
5.0V	21	32	0V
5.0V	22	31	4.9V
0V	23	30	5.0V
2.3V	24	29	5.0V
2.3V	25	28	5.0V
0V	26	27	5.1V

IC790

0V	1	8	5.1V
0V	2	7	0V
0V	3	6	4.9V
0V	4	5	4.9V

IC451

46Vpp VERT. / 0.8Vpp VERT. / 25Vpp VERT.

0V	1
12.1V	2
23.5V	3
0.8V	4
0.8V	5
23.3V	6
1.5V	7

IC101

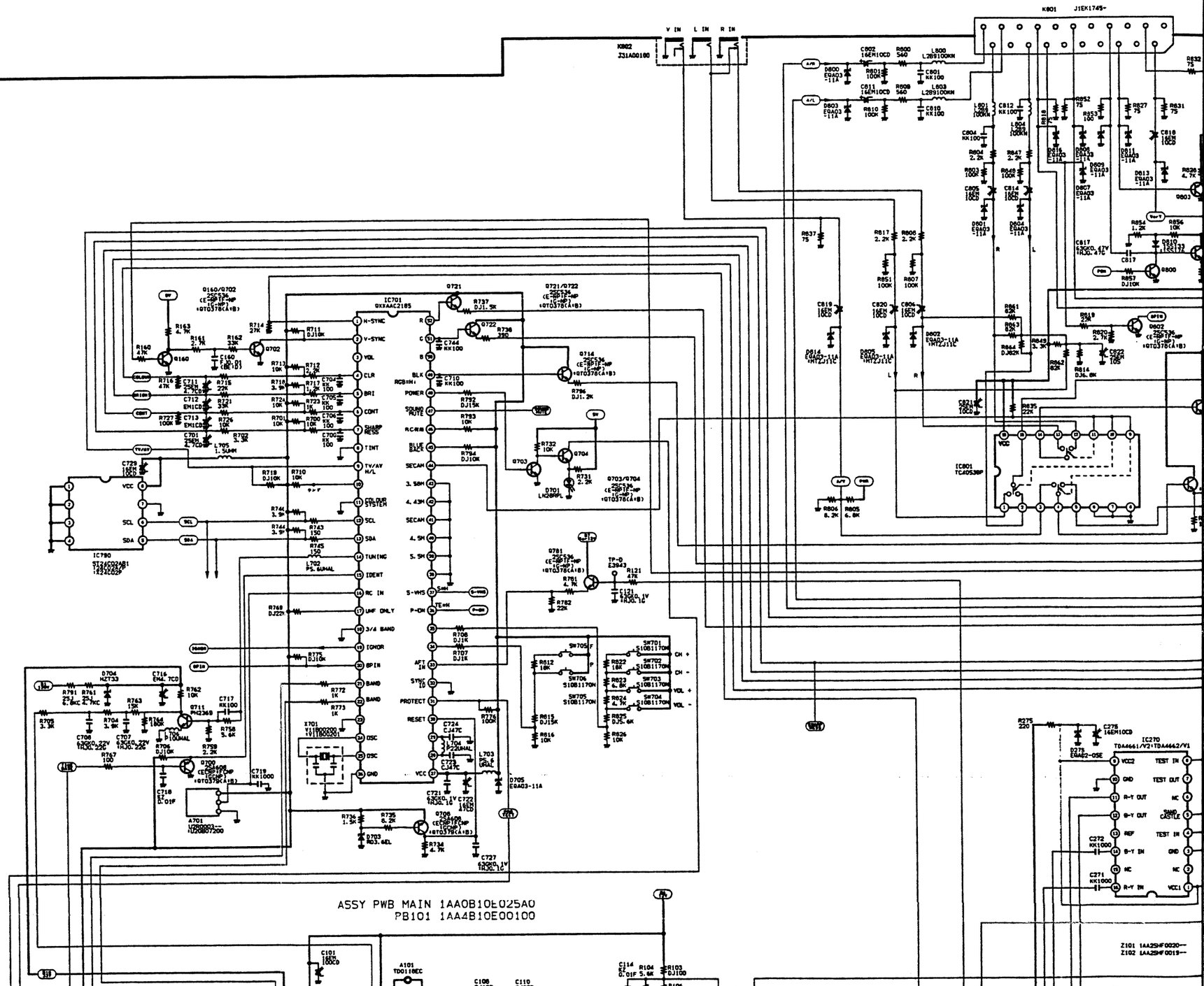
3.0V	1	52	6.6V
5.9V	2	51	4.7V
5.9V	3	50	3.5V
8.0V	4	49	1.4V
0V	5	48	4.4V
3.9V	6	47	4.1V
3.2V	7	46	4.0V
1.7V	8	45	4.0V
0V	9	44	3.8V
8.0V	10	43	0.8V
0V	11	42	2.5V
3.2V	12	41	2.6V
4.2V	13	40	3.8V
2.5V	14	39	3.0V
3.4V	15	38	1.3V
0.1V	16	37	0.7V
3.8V	17	36	8.0V
2.5V	18	35	2.1V
2.5V	19	34	2.8V
2.5V	20	33	4.4V
0.2V	21	32	1.5V
3.4V	22	31	1.5V
3.4V	23	30	1.5V
3.4V	24	29	3.9V
2.3V	25	28	3.9V
2.1V	26	27	2.5V

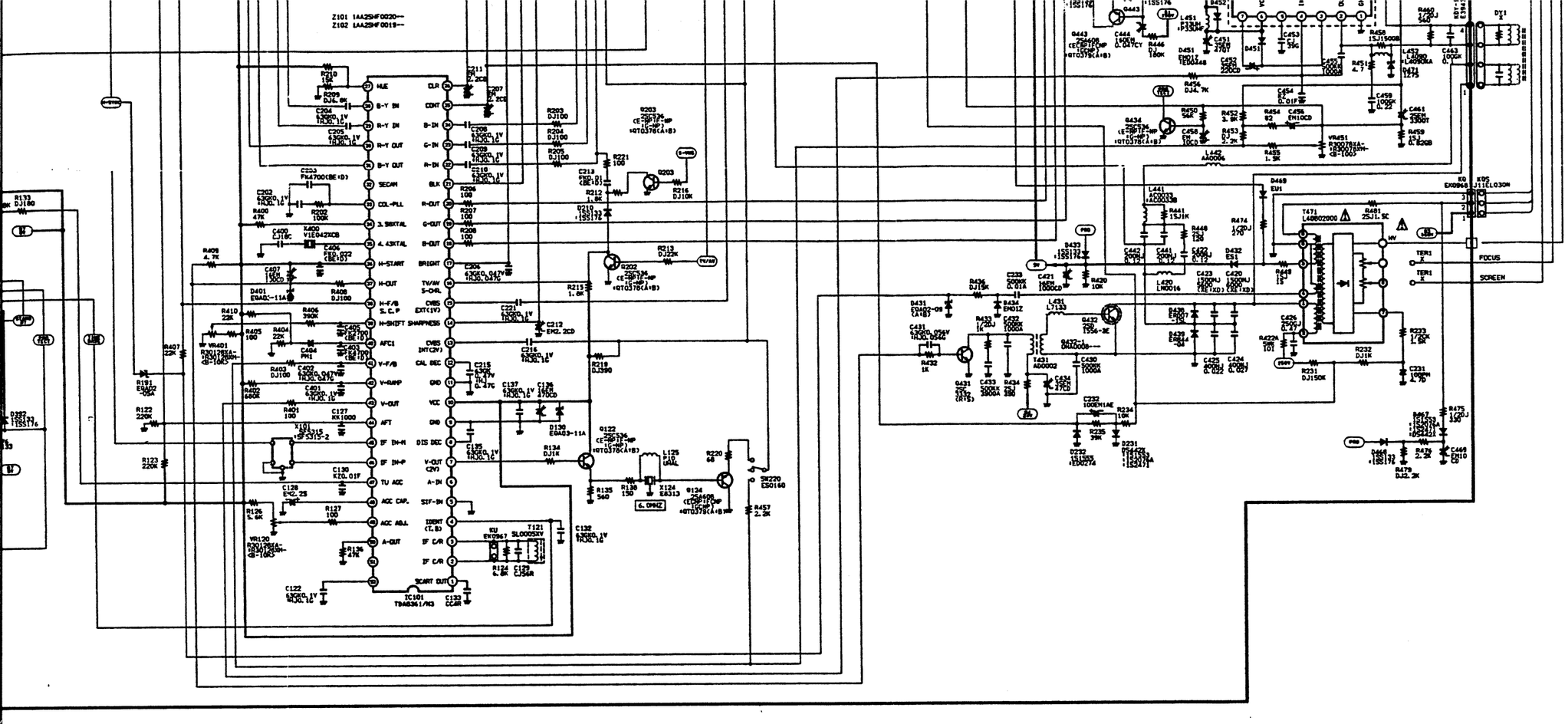
IC270

5.1V	1	16	1.5V
-	2	15	-
0V	3	14	1.5
0V	4	13	-
1.3V	5	12	3.1V
-	6	11	3.1V
-	7	10	0
0V	8	9	5.1V

IC171

1.7V	1	8	11.4V
1.7V	2	9	23.7V
13.0V	3	10	11.4V
1.7V	4	11	-
1.7V	5		
0V	6		
-	7		





Q702	
	VOLT.
B	0.6V
C	0V
E	0V

Q703	
	VOLT.
B	0.6V
C	0.1V
E	0V

Q704	
	VOLT.
B	0.1V
C	29.0V
E	1.8V

Q708	
	VOLT.
B	4.4V
C	5.0V
E	5.1V

Q711	
	VOLT.
B	0.5V
C	5.3V
E	0V

Q714	
	VOLT.
B	0V
C	5.1V
E	0.1V

Q721	
	VOLT.
B	0V
C	5.1V
E	0.3V

Q722	
	VOLT.
B	0V
C	5.1V
E	0V

Q809	
	VOLT.
B	7.1V
C	11.7V
E	6.6V

Q810	
	VOLT.
B	3.9V
C	11.7V
E	3.2V

Q800	
	VOLT.
B	0.1V
C	0V
E	0V

Q801	
	VOLT.
B	0.9V
C	11.7V
E	0.3V

Q802	
	VOLT.
B	0V
C	5.1V
E	0V

Q803	
	VOLT.
B	0V
C	0V
E	0.6V

Q804	
	VOLT.
B	0.6V
C	11.7V
E	0.1V

Q805	
	VOLT.
B	0V
C	0.6V
E	0V

Q806	
	VOLT.
B	6.4V
C	11.7V
E	5.7V

Q808	
	VOLT.
B	7.1V
C	11.7V
E	6.6V

uit diagram.

- J= ± 5%
- K= ± 10%
- M= ± 20%

- T,A,U,D:Electrolytic
- C,K,B:Ceramic
- F:Mylar film
- M,N:Polypropylene
- Z:Metalized paper

- D:Carbon
- N:Metalized carbon
- S:Oxide metalized
- W:Wire wounding
- C:Solid

3, 1S2076 or DS472

R,S), 2SC945A(Q,R,P) or

ced with 2SA933(Q,R),
therwise noted.

Note sul diagramma di circuito :

1. Tutte i valori di resistenza sono in ohm, K=1,000, M=1,000,000.
2. Tutte le resistenze nominali watt sono di 1/6 a meno che sia specificato altrimenti.
3. Eccetto per i condensatori elettrolitici, tutti i valori di capacitanza di meno di sono espressi in µF, e di piu di 1 sono in pF. I varoli di capacitanza elettrolitici sono in µF.
4. Tutti volt di capacitanza nominali sono di 50V a meno cha sia indicato altrimenti.
5. Tutti valori di induttanza sono in µH.
6. I valori letti del voltaggio presi con un "VTVM" proven gono dal punto indicato sulla massa del chassis, i valori di voltaggio presi usando un segnale di barre colore sono con tutti i controlli alle loro posizioni normali ed il commutatore AFC in posizione "OFF". Il voltaggio puo variare con l'intensita del segnale.
7. Le forme di onda furonu prese con il segnale di barre colore e i controlli regolati oppure le forme di onda di immagine normale furono prese usando un oscillatore a larga banda ed una sonda bassa capasità.
8. Rispetto a quando indicato su questo schema possono essere state introdotte delle modifiche.

9. Espressione di capacitanza resistanze nel diagramma di circuito.

Capacitanza (Esempio)
1000 C M 2000 D
- Caratteristici
- Valore capacitanza (220pF)
- Errore di tolleranza (±20%)
- Tipo (Ceramico)
- Nominali volt(1,000V)

- J= ± 5%
- K= ± 10%
- M= ± 20%

- T,A,U,D:Elettrolitico
- C,K,B:Ceramico
- F:Film Mylar
- M,N:Polipropilene
- Z:Carta metalizzata

Resistanze (Esempio)
1/2 N J 1.2
- Valore resistanza (1.2Ω)
- Errore di tolleranza (±5%)
- Tipo (carbone metallizzato)
- Nominali watt(1/2W)

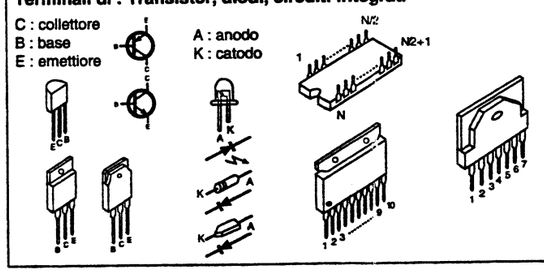
- D:Carbone
- N:Carbone metalizzato
- S:Ossido metalizzato
- W:Avvolgimento di fili
- C:Solido

10. ■ I diodo 1S1555 possono essere sostitutti con 1S2473, 1S2076 oppure DS472 a meno che sia specificato altrimenti.
■ I transistori possono essere sostitutti con 2SC536(Q,R,S), 2SC1740(Q,R,S), 2SC945A(Q,R,P) oppure 2SC1815(G,O,Y) a meno che sia specificato altrimenti.
■ Il transistore 2SA608(E,F) puo essere sostituito con 2SA933(Q,R), 2SA564(QA,RA), oppure 2SA1015(O,Y) a meno che sia specificato altrimenti.

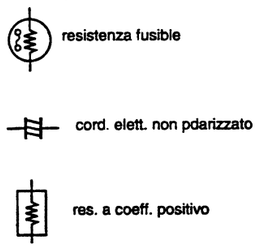
Terminali di : Transistor, diodi, circuiti integrati

C : collettore
B : base
E : emettiore

A : anodo
K : catodo



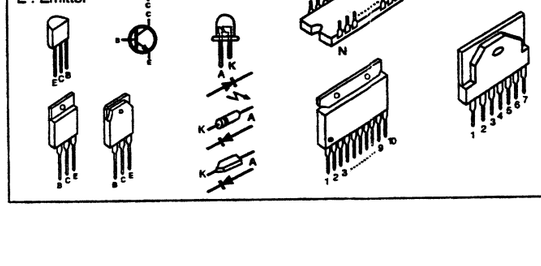
Simbali particolar



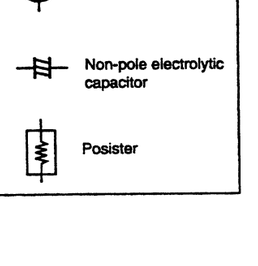
Transistor, Diode & Integrated Circuit terminal guide

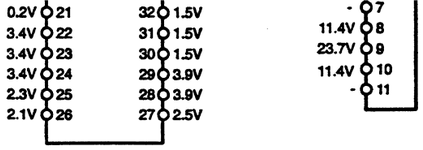
C : Collector
B : Base
E : Emitter

A : Anode
K : Kathode



Particular parts symbol





Q312		
	VOLT.	WAVEFORM
B	-1.4V	6.6Vp-p
C	-1.1V	5.0Vp-p
E	0V	

Q313		
	VOLT.	WAVEFORM
B	-1.1V	5.0Vp-p
C	-	660Vp-p
E	0V	

Q431		
	VOLT.	WAVEFORM
B	0.2V	1.0Vp-p HORIZ.
C	11.2V	60Vp-p HORIZ.
E	0V	

Q432		
	VOLT.	WAVEFORM
B	0.1V	12Vp-p HORIZ.
C	-	1100Vp-p HORIZ.
E	0V	

IC191	
	VOLT.
1	9.6V
2	0V
3	5.0V

IC351	
	VOLT.
1	14.5V
2	0V
3	11.7V

IC352	
	VOLT.
1	10.7V
2	0V
3	8.0V

Q101	
	VOLT.
B	1.2V
C	5.3V
E	0.5V

Q102	
	VOLT.
B	5.2V
C	9.1V
E	4.7V

Q122	
	VOLT.
B	3.1V
C	8.1V
E	2.4V

Q124	
	VOLT.
B	2.4V
C	0V
E	3.1V

Q160	
	VOLT.
B	0.4V
C	5.4V
E	0V

Q171	
	VOLT.
B	0V
C	12.9V
E	0V

Q700	
	VOLT.
B	8.0V
C	0V
E	5.0V

Q702	
	VOLT.
B	0.6V
C	0V
E	0V

Q703	
	VOLT.
B	0.6V
C	0.1V
E	0V

Q704	
	VOLT.
B	0.1V
C	29.0V
E	1.8V

Q708	
	VOLT.
B	4.4V
C	5.0V
E	5.1V

Q711	
	VOLT.
B	0.5V
C	5.3V
E	0V

Q202	
	VOLT.
B	0.6V
C	0.1V
E	0V

Q203	
	VOLT.
B	0V
C	0V
E	0V

Q311	
	VOLT.
B	9.5V
C	-1.4V
E	9.9V

Q353	
	VOLT.
B	6.8V
C	29.0V
E	6.2V

Q381	
	VOLT.
B	5.7V
C	15.7V
E	5.1V

Q434	
	VOLT.
B	0V
C	4.9V
E	0V

Q443	
	VOLT.
B	7.7V
C	0.7V
E	7.8V

Q461	
	VOLT.
B	0.5V
C	9.1V
E	0V

Q462	
	VOLT.
B	9.7V
C	0V
E	9.1V

Q781	
	VOLT.
B	3.3V
C	8.0V
E	2.8V

Q800	
	VOLT.
B	0.1V
C	0V
E	0V

Q801	
	VOLT.
B	0.9V
C	11.7V
E	0.3V

Q802	
	VOLT.
B	0V
C	5.1V
E	0V

Q803	
	VOLT.
B	0V
C	0.6V
E	0.6V

Q804	
	VOLT.
B	0.6V
C	11.7V
E	0.1V

PRECAUZIONE DI SERVIZIO
L'area inclusa in questa linea (⚠) è collegata direttamente con la tensione della rete CA quando si serve l'area collegare un trasformatore isolante tra il ricevitore TV e la linea CA per eliminare il pericolo di scossa elettrica.

The service Precaution:
The area enclosed by this line (⚠) is directly connected with AC mains voltage. When servicing the area, connect an isolating transformer between TV receiver and AC line to eliminate hazard of electric shock.

NOTIZIE SULLA SICUREZZA DI FUNZIONAMENTO
Ogni sotituzione di componenti va fatta tenendo conto della sicurezza di funzionamento. I componenti indicati sollo schema con il simbolo ⚠ hanno particolare importanza per il sicuro funzionamento del TV.
I suddetti componenti devono essere sostituti esclusivamente con quelli indicati nell'elenco.

Product safety notice:
Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a mark ⚠ in this circuit diagram show components whose values have special significance to product safety. It is particularly recommended that only parts specified on the part service manual be used for components replacement pointed out by the mark.

SANYO

COLOUR TELEVISION
TELEVISIONE A COLORI

EB2-A CHASSIS SERIES

SERVICE REF.NO. **C25EG34-00**

Part No. 1AA6P2P0379-- E7GT (1)

Circuit diagram notes :
1. All resistance values are in ohms, K=1,000, M=1,000,000.
2. All resistance rated wattages are 1/6W unless otherwise noted.
3. Excepting electrolytic capacitors, all capacitance values of less than 1 are expressed in μF and more than 1 are pF.
4. All capacitance rated voltages are 50V unless otherwise noted.
5. All inductance values are in μH.
6. Voltage readings taken with taken with a "VTVM" are from point indicated chassis ground. Voltage readings taken by using a colour bar signal are with all controls at normal position. Some voltages may vary with signal strength.
7. Waveforms were taken with colour bar and controls adjusted for normal picture. Waveforms were taken by using a wide band oscilioscope and a low capacity probe.
8. This circuit diagram covers a basic or representative chassis only. There may be some components or partial circuit differences between the actual chassis and the circuit diagram.
9. Expression of capacitance and resistance in circuit diagram.

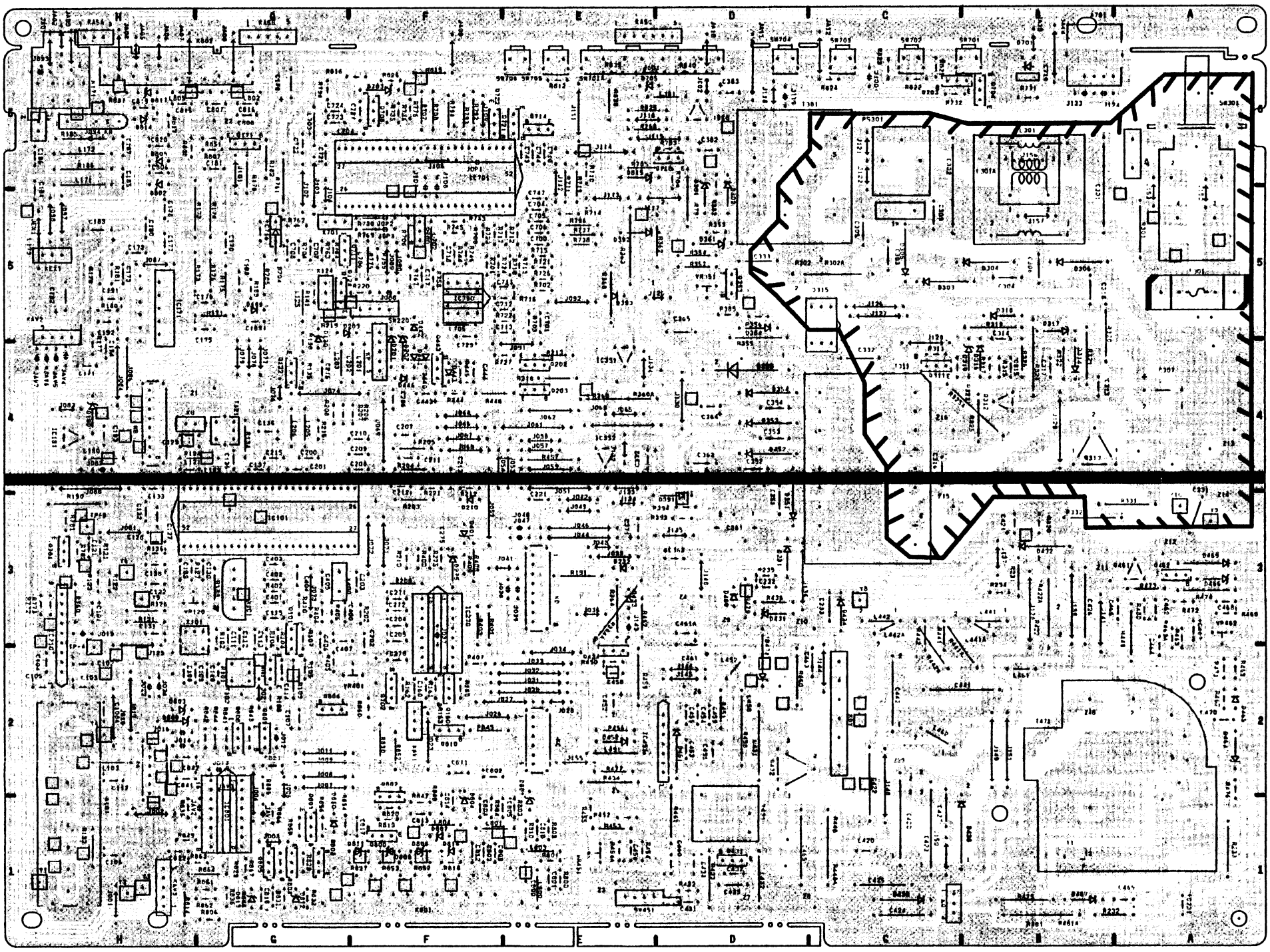
Capacitance (Example)
1000 C M 2000 D
- Characteristic
- Capacitance value (220pF)
- Allowable error (±20%) — J= ± 5%, K= ± 10%, M= ± 20%
- Kind (Ceramic) — T,A,U,D:Electrolytic, C,K,B:Ceramic, F:Mylar film, M,N:Polypropylene, Z:Metalized paper
- Rated voltage(1,000V)

Resistance (Example)
1/2 N J 1.2
- Resistance value (1.2Ω)
- Allowable error (±5%) — D:Carbon, N:Metalized carbon, S:Oxide metalized, W:Wire wounding, C:Solid
- Kind (M.carbon)
- Rated wattage(1/2W)

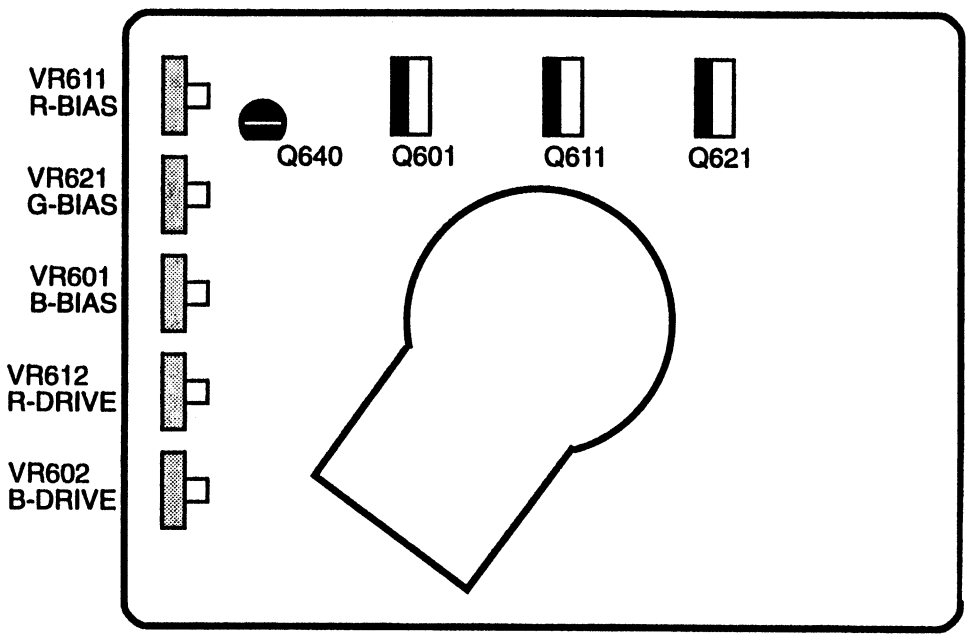
10. ■ Diode 1S1555 may be replaced with 1S2473, 1S2076 or DS472 unless otherwise noted.
■ Transistor 2SC536(Q,R,S), 2SC1740(Q,R,S), 2SC945A(Q,R,P) or 2SC1815(G,O,Y) unless otherwise noted.
■ Transistor 2SA608(E,F) may be replaced with 2SA933(Q,R), 2SA564(QA,RA), or 2SA1015(O,Y) unless otherwise noted.

Note sul diagramma di circuito :
1. Tutte i valori di resistenza sono in ohm, K=1,000, M=1,000,000.
2. Tutte le resistenze nominali watt sono di 1/6 a meno che sia specifica menti.
3. Eccetto per i condensatori elettrolitici, tutti i valori di capacitanza sono espressi in μF, e di piu di 1 sono in pF. I varoli di capacitanz sono in μF.
4. Tutti volt di capacitanza nominali sono di 50V a meno cha sia indicat
5. Tutti valori di induttanza sono in μH.
6. I valori letti del voltaggio presi con un "VTVM" proven gono dal pu sulla massa del chassis, i valori di voltaggio presi usando un segn colore sono con tutti i controlli alle loro posizioni normali ed il commu in posizione "OFF". Il voltaggio puo variare con l'intensita del segnale
7. Le forme di onda furono prese con il segnale di barre colore e i cont oppure le forme di onda di immagine normale furono prese usando tore a larga banda ed una sonda bassa capasità.
8. Rispetto a quando indicato su questo schema possono essere sta delle modifiche.

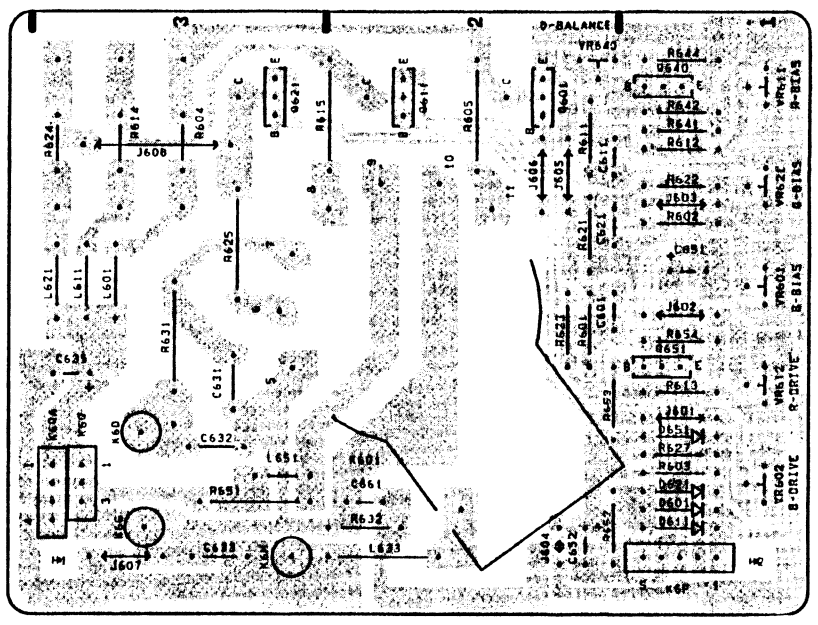
Main board (Circuit side)/Pannello Principale (Lato del Circuito)



CRT board (Component location)/Pannello Cinescopio (Lato del Componente)



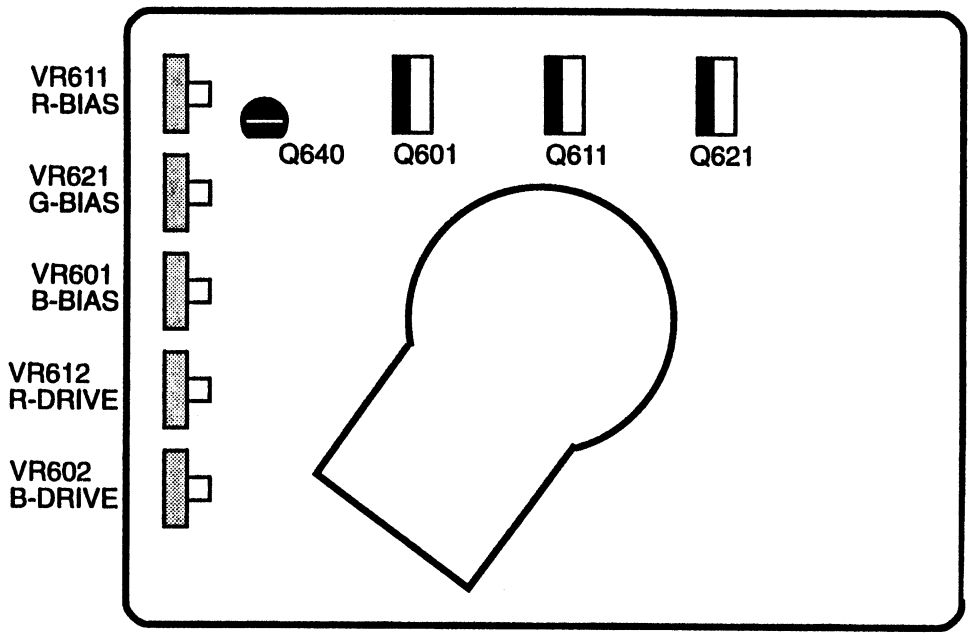
CRT board (Circuit side)/Pannello Cinescopia (Lato del Circuito)



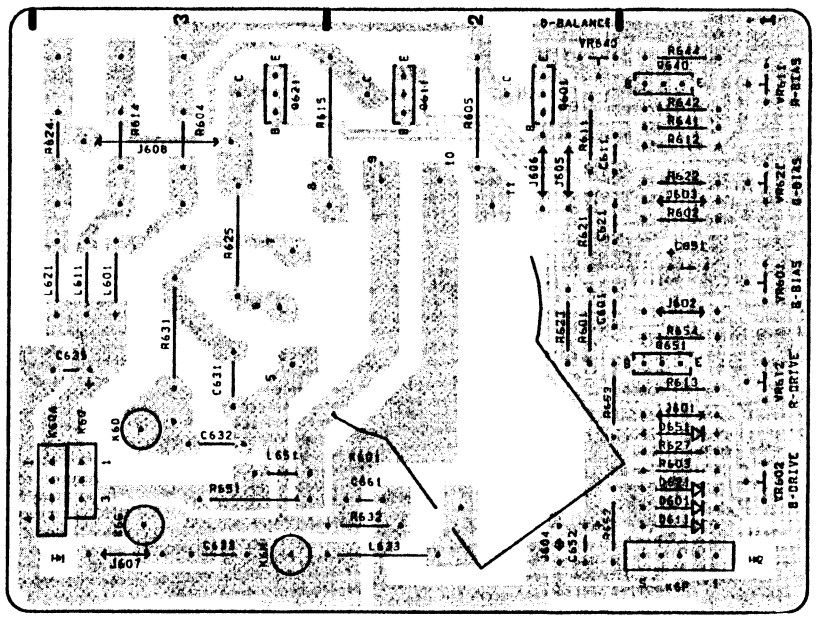
Stereo board (Component location) Pannello stereo (Lato del Componente)

Stereo board (Cir Pannello Stereo (

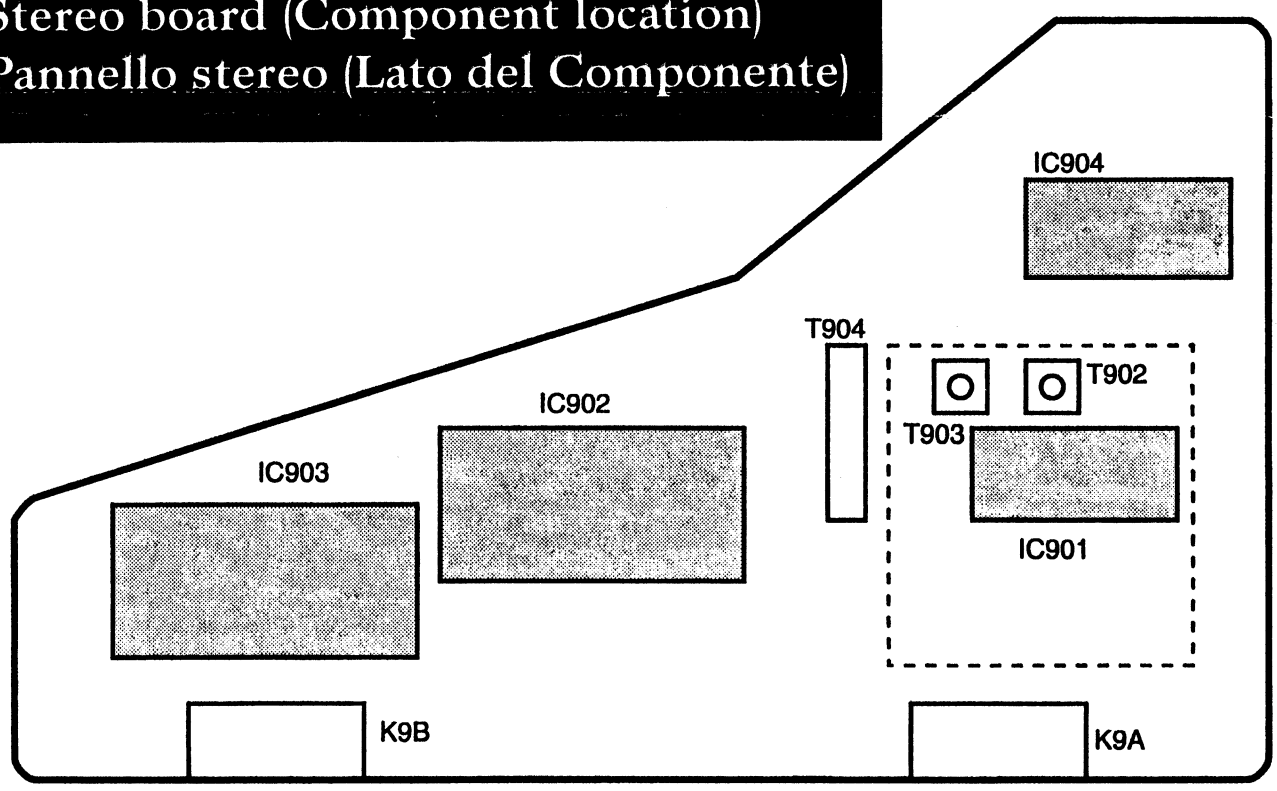
CRT board (Component location)/ Pannello Cinescopio (Lato del Componente)



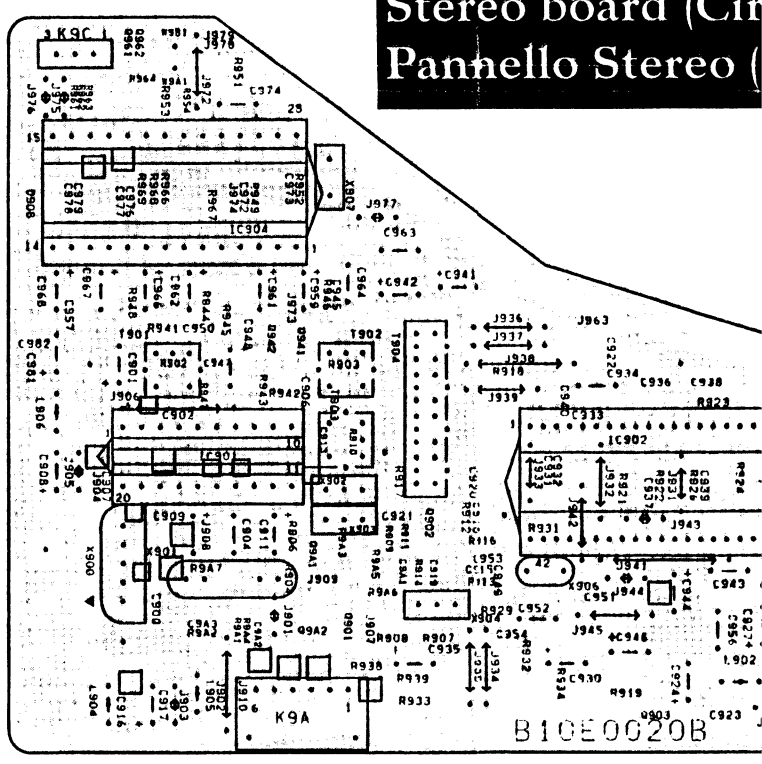
CRT board (Circuit side)/ Pannello Cinescopia (Lato del Circuito)

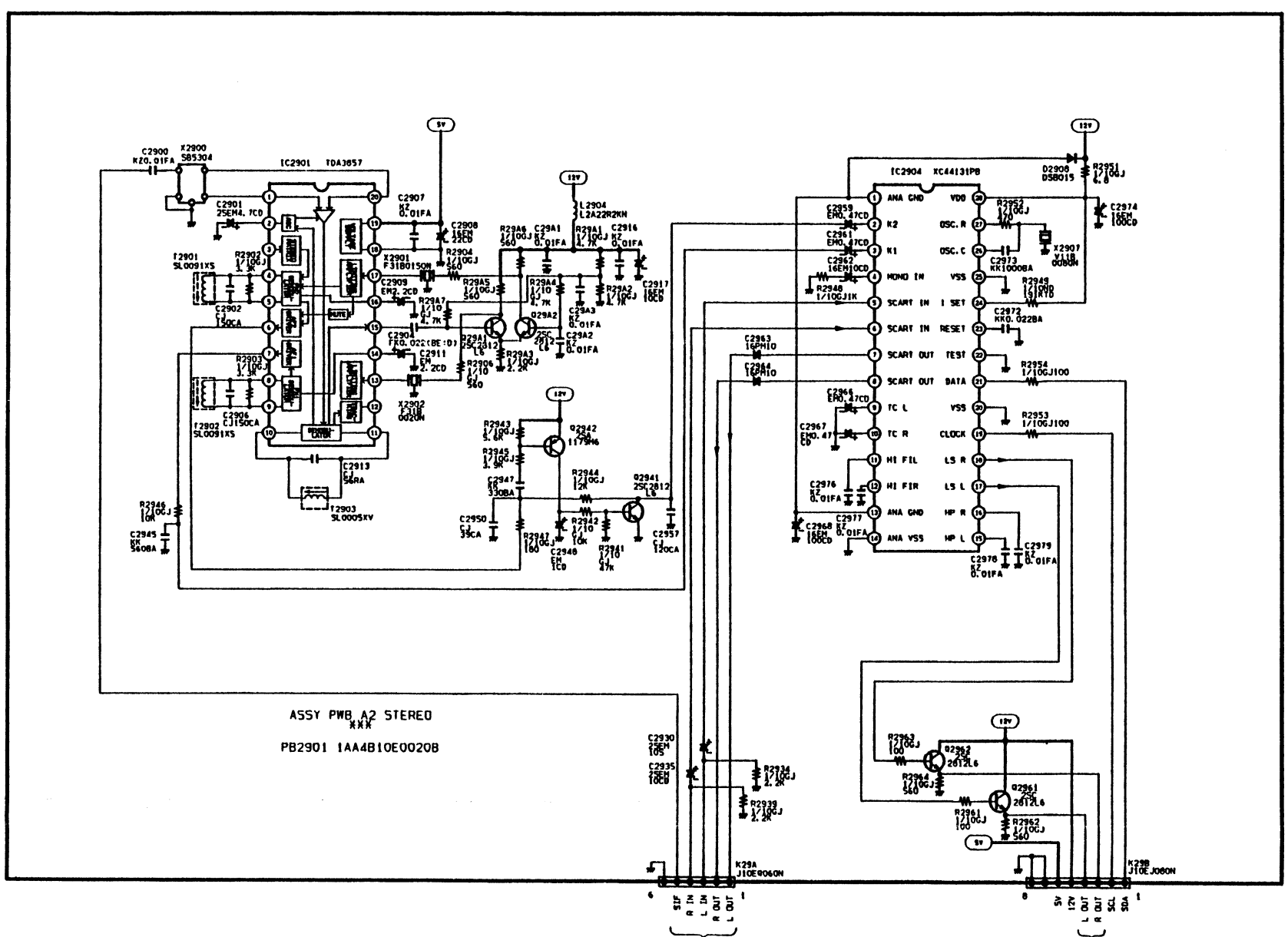


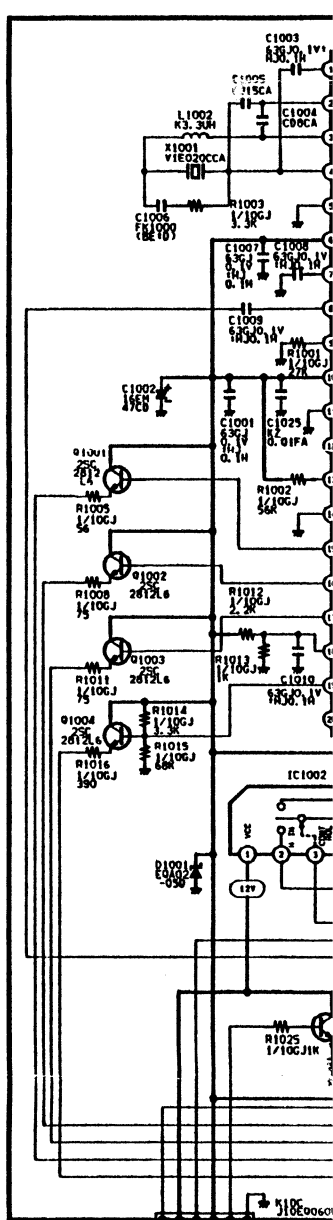
Stereo board (Component location) Pannello stereo (Lato del Componente)

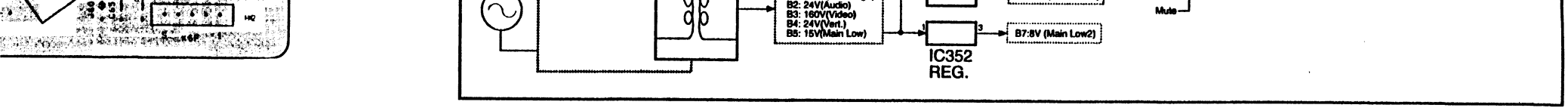


Stereo board (Cir Pannello Stereo (

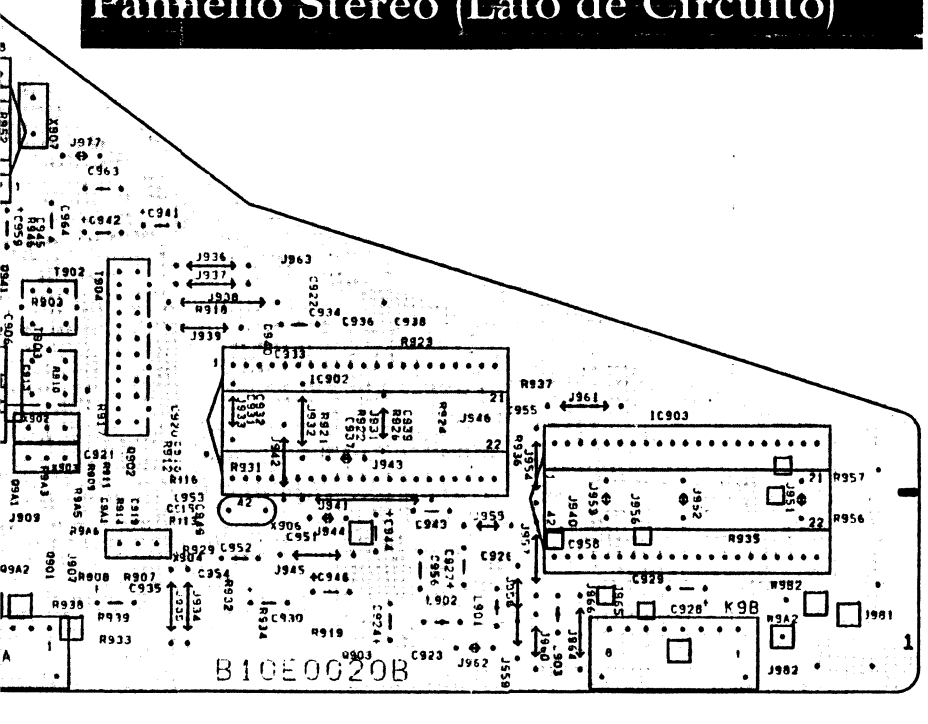




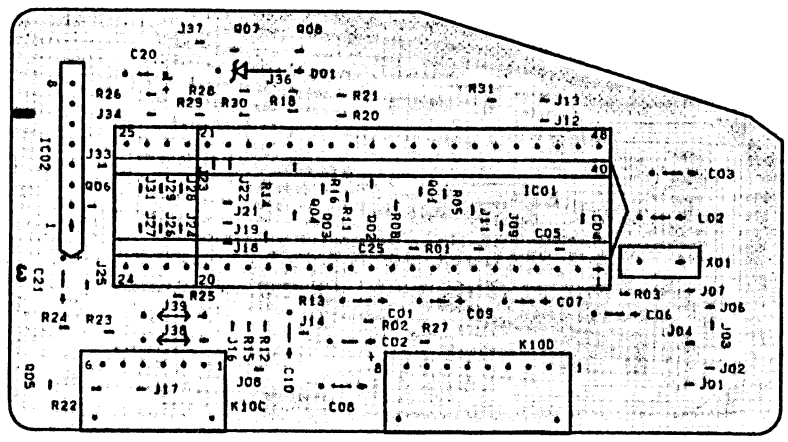


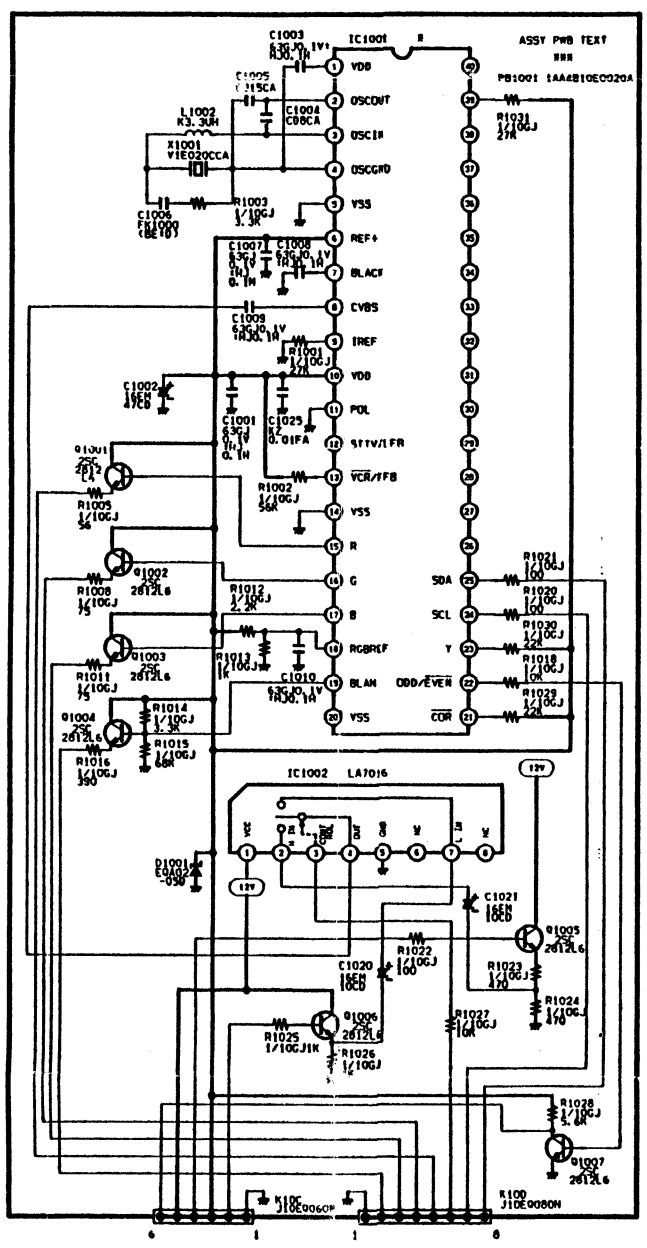


Stereo board (Circuit side)
Pannello Stereo (Lato de Circuito)



Teletext board (Circuit side)
Pannello Televideo (Lato del Circuito)





AUDIO UNIT
(A2 stereo)

IC901

4.4V	1	20	4.4V
2.1V	2	19	4.4V
5.6V	3	18	0V
0V	4	17	11.7V
3.0V	5	16	5.7V
2.4V	6	15	5.7V
3.1V	7	14	2.1V
3.1V	8	13	2.1V
5.3V	9	12	5.3V
5.3V	10	11	5.3V

IC904

5.8V	1	28	3.4V
11.6V	2	27	3.4V
5.8V	3	26	3.4V
11.6V	4	25	3.4V
3.4V	5	24	5.8V
5.8V	6	23	5.8V
5.8V	7	22	5.8V
5.8V	8	21	5.8V
5.8V	9	20	4.9V
0V	10	19	5.0V
5.8V	11	18	5.8V
5.8V	12	17	5.8V
5.8V	13	16	4.9V
0V	14	15	5.0V

Q961	
	VOLT.
B	5.8V
C	11.6V
E	5.2V

Q962	
	VOLT.
B	5.8V
C	11.6V
E	5.2V

Q941	
	VOLT.
B	0V
C	2.5V
E	0V

Q942	
	VOLT.
B	11.6V
C	0V
E	11.6V

Q9A1	
	VOLT.
B	5.8V
C	11.6V
E	5.2V

Q9A2	
	VOLT.
B	5.8V
C	11.6V
E	5.8V

TELETEXT UNIT
TELEVIDEO

IC1001

4.7V	1	40	-
2.0V	2	39	4.5V
3.6V	3	38	-
0V	4	37	-
0V	5	36	-
0V	6	35	-
4.9V	7	34	-
2.2V	8	33	-
2.5V	9	32	-
4.9V	10	31	-
0V	11	30	-
2.2V	12	29	-
4.6V	13	28	-
0V	14	27	-
0V	15	26	-
0V	16	25	4.0V
0V	17	24	4.0V
0V	18	23	0V
0V	19	22	0V
0V	20	21	4.7V

Q1001	
	VOLT.
B	0V
C	4.9V
E	0V

Q1002	
	VOLT.
B	0V
C	4.9V
E	0V

Q1003	
	VOLT.
B	0V
C	4.9V
E	0V

Q1004	
	VOLT.
B	0V
C	4.9V
E	0V

Q1005	
	VOLT.
B	3.9V
C	11.7V
E	3.2V

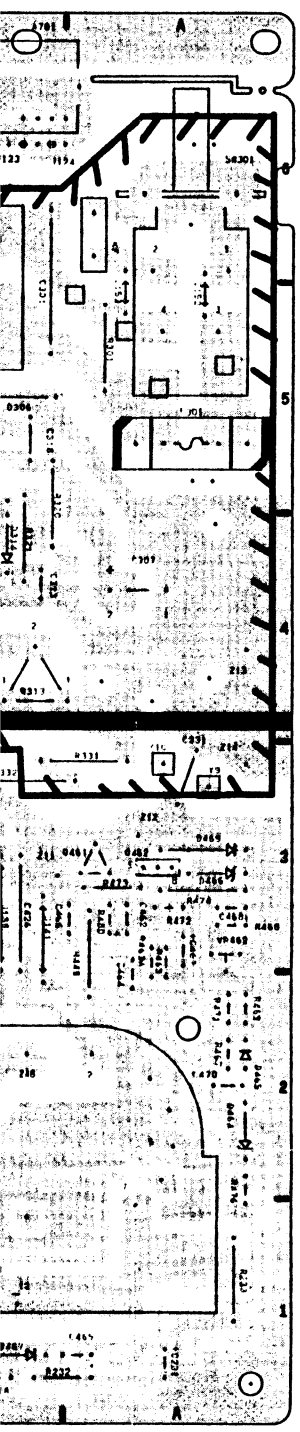
Q1006	
	VOLT.
B	5.7V
C	11.7V
E	5.1V

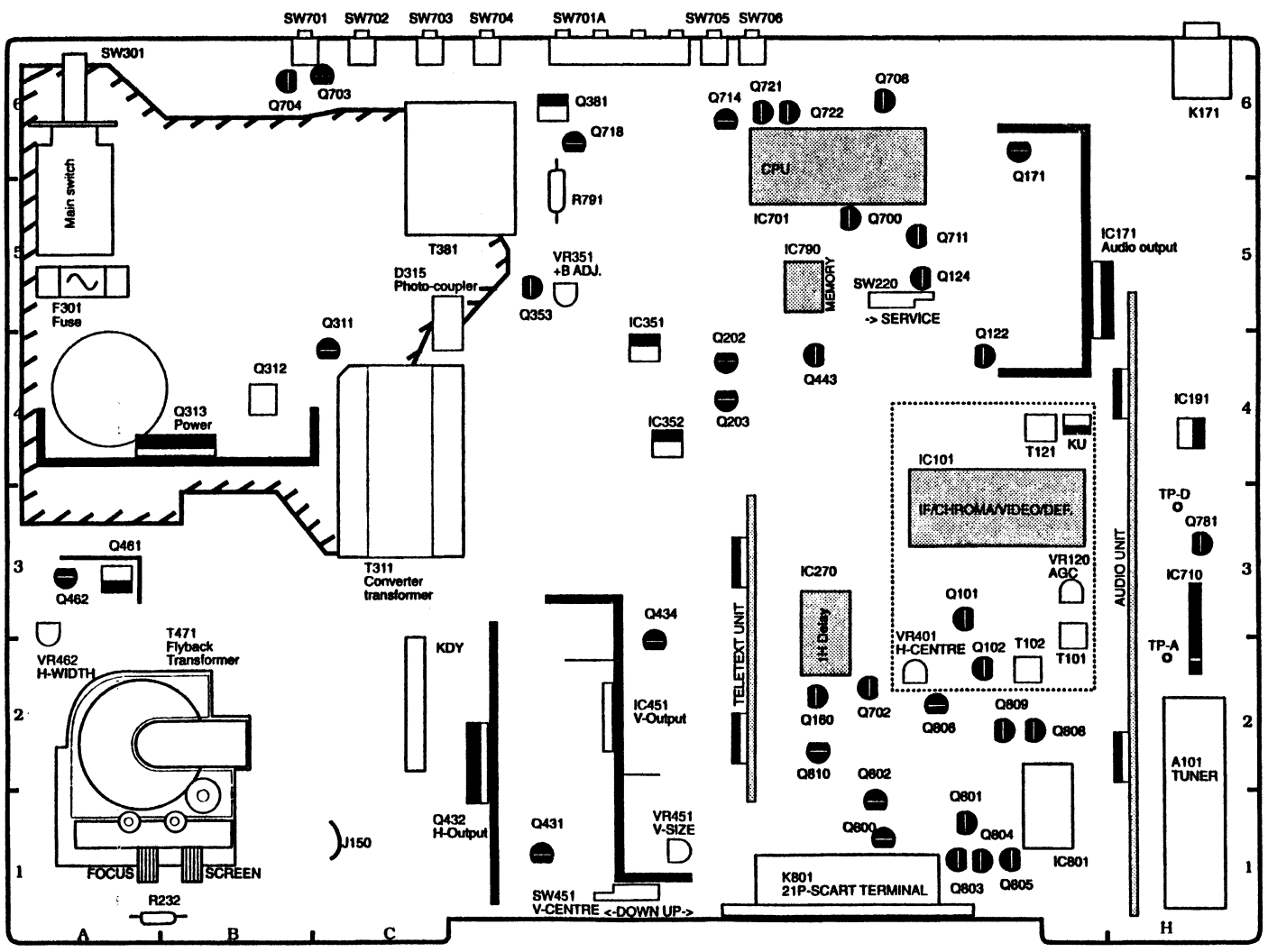
Q1007	
	VOLT.
B	0V
C	12.0V
E	0V

IC1002

11.6V	1		
7.6V	2		
3.6V	3		
6.9V	4		
0V	5		
0V	6		
7.6V	7		
0V	8		

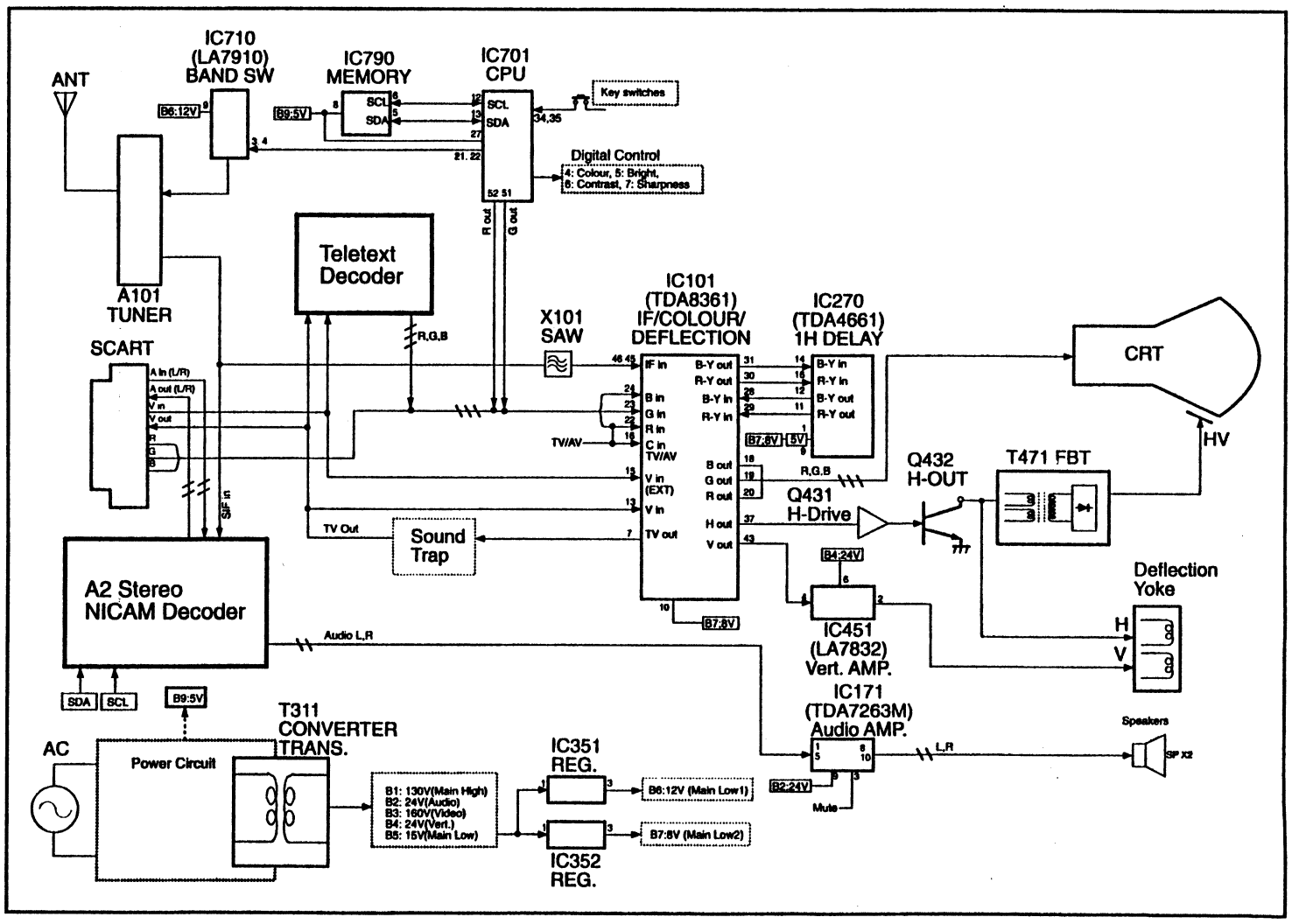
Main board (Component location)/Pannello Principale (Lato del Componente)



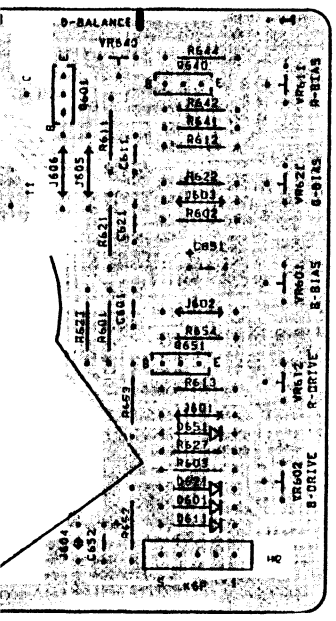


Block Diagram

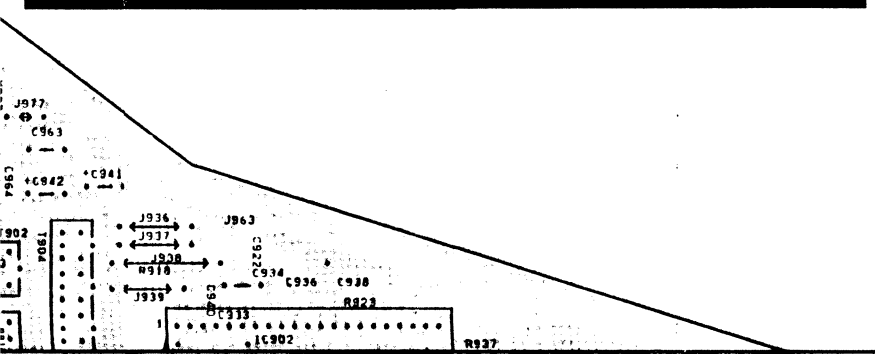
Note: This a general diagram covering all models



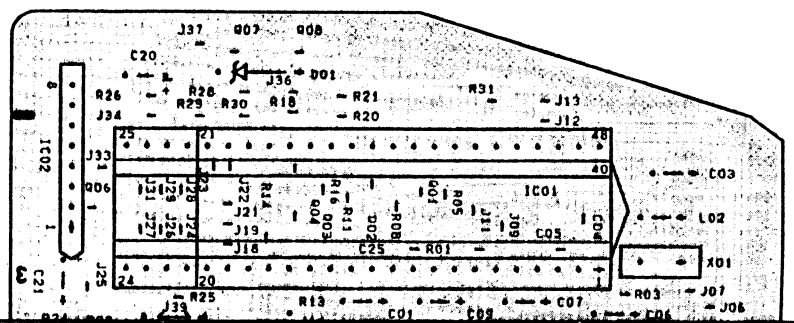
ide)/Pannello Circuito)



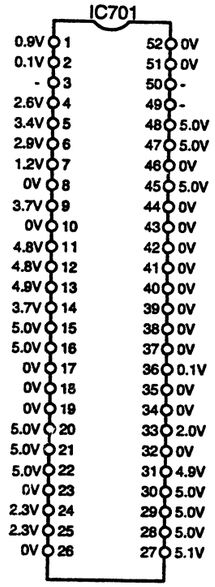
Stereo board (Circuit side) Pannello Stereo (Lato de Circuito)

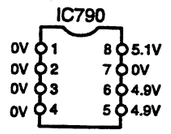


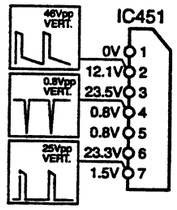
Teletext board (Circuit side) Pannello Televideo (Lato del Circuito)

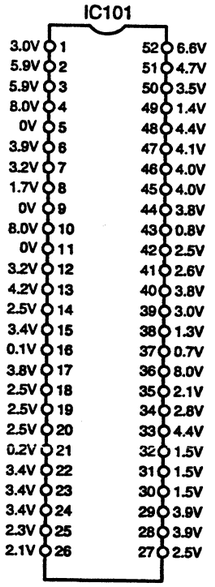


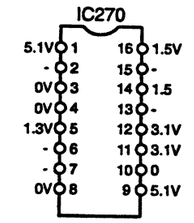
MAIN PCB. UNIT

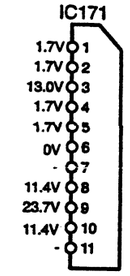












Q312	VOLT.	WAVEFORM
B	-1.4V	6.6Vp-p
C	-1.1V	5.0Vp-p
E	0V	

Q313	VOLT.	WAVEFORM
B	-1.1V	5.0Vp-p
C	-	660Vp-p
E	0V	

ASSY PWB MAIN 1AA0B10E003A0
PB101 1AA4B10E00100

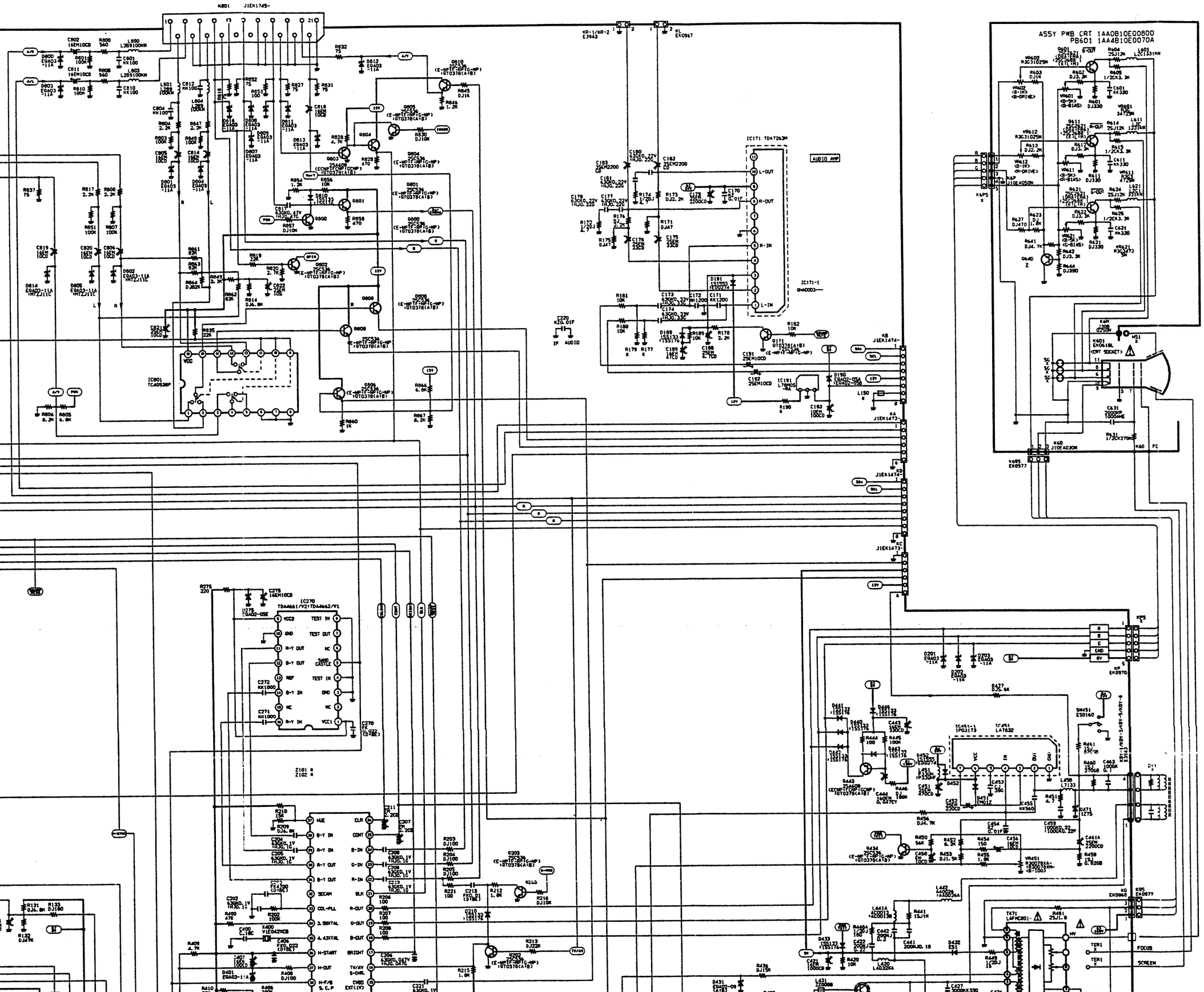
CRT UNIT

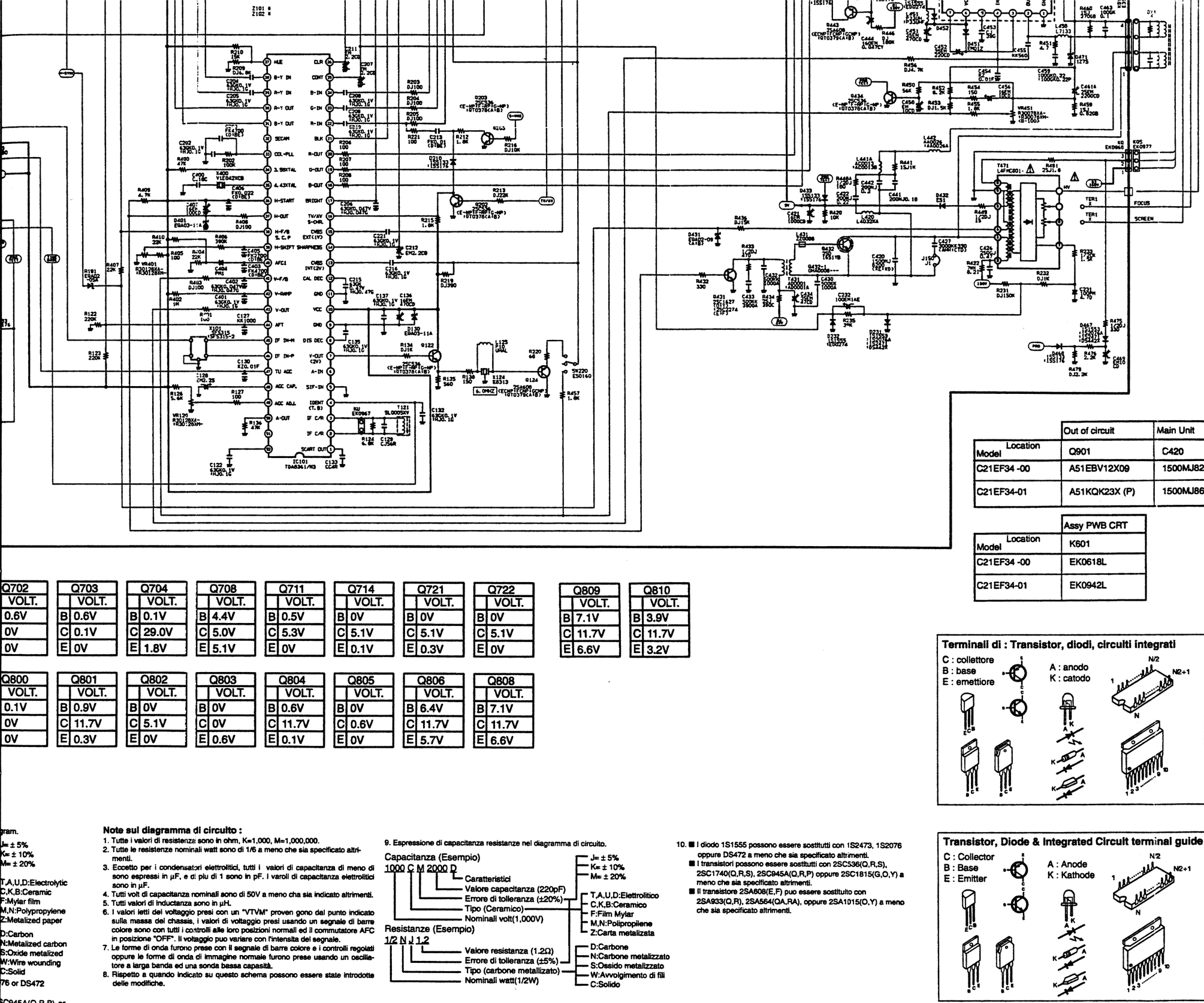
Q601		
	VOLT.	WAVEFORM
B	2.0V	2.8Vp-p HORIZ.
C	143V	91Vp-p HORIZ.
E	1.5V	

Q611		
	VOLT.	WAVEFORM
B	2.2V	3.4Vp-p HORIZ.
C	144V	100Vp-p HORIZ.
E	1.8V	

Q621		
	VOLT.	WAVEFORM
B	2.1V	3.2Vp-p HORIZ.
C	145V	94Vp-p HORIZ.
E	1.7V	

Q640	
	VOLT.
B	0.9V
C	0V
E	1.5V





	Out of circuit	Main Unit				
Location / Model	Q901	C420	C442	L442	R442	R454
C21EF34 -00	A51EBV12X09	1500MJ8200(XD:XE)	200NJ0.20	AA0026(A)	-	150
C21EF34-01	A51KQK23X (P)	1500MJ8600(XD:XE)	200NJ0.12	-	J	180

	Assy PWB CRT
Location / Model	K601
C21EF34 -00	EK0618L
C21EF34-01	EK0942L

Q702	
	VOLT.
	0.6V
	0V
	0V

Q703	
	VOLT.
B	0.6V
C	0.1V
E	0V

Q704	
	VOLT.
B	0.1V
C	29.0V
E	1.8V

Q708	
	VOLT.
B	4.4V
C	5.0V
E	5.1V

Q711	
	VOLT.
B	0.5V
C	5.3V
E	0V

Q714	
	VOLT.
B	0V
C	5.1V
E	0.1V

Q721	
	VOLT.
B	0V
C	5.1V
E	0.3V

Q722	
	VOLT.
B	0V
C	5.1V
E	0V

Q809	
	VOLT.
B	7.1V
C	11.7V
E	6.6V

Q810	
	VOLT.
B	3.9V
C	11.7V
E	3.2V

Q800	
	VOLT.
	0.1V
	0V
	0V

Q801	
	VOLT.
B	0.9V
C	11.7V
E	0.3V

Q802	
	VOLT.
B	0V
C	5.1V
E	0V

Q803	
	VOLT.
B	0V
C	0V
E	0.6V

Q804	
	VOLT.
B	0.6V
C	11.7V
E	0.1V

Q805	
	VOLT.
B	0V
C	0.6V
E	0V

Q806	
	VOLT.
B	6.4V
C	11.7V
E	5.7V

Q808	
	VOLT.
B	7.1V
C	11.7V
E	6.6V

gram.
J= ± 5%
K= ± 10%
M= ± 20%

T,A,U,D:Electrolytic
C,K,B:Ceramic
F:Mylar film
M,N:Polypropylene
Z:Metalized paper

D:Carbon
N:Metalized carbon
S:Oxide metalized
W:Wire wounding
C:Solid

76 or DS472

SC945A(Q,R,P) or

th 2SA933(Q,R),
e noted.

Note sul diagramma di circuito :

1. Tutte i valori di resistenze sono in ohm, K=1,000, M=1,000,000.
2. Tutte le resistenze nominali watt sono di 1/6 a meno che sia specificato altrimenti.
3. Eccetto per i condensatori elettrolitici, tutti i valori di capacitanza di meno di sono espressi in µF, e di piu di 1 sono in pF. I varoli di capacitanza elettrolitici sono in µF.
4. Tutti volt di capacitanza nominali sono di 50V a meno cha sia indicato altrimenti.
5. Tutti valori di inductanza sono in µH.
6. I valori letti del voltaggio presi con un "VTVM" proven gono dal punto indicato sulla massa del chassis, i valori di voltaggio presi usando un segnale di barre colore sono con tutti i controlli alle loro posizioni normali ed il commutatore AFC in posizione "OFF". Il voltaggio puo variare con l'intensita del segnale.
7. Le forme di onda furono prese con il segnale di barre colore e i controlli regolati oppure le forme di onda di immagine normale furono prese usando un oscillatore a larga banda ed una sonda bassa capasità.
8. Rispetto a quando indicato su questo schema possono essere state introdotte delle modifiche.

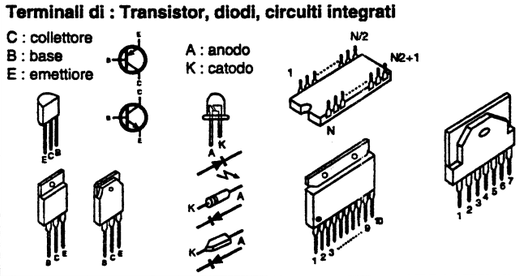
9. Espressione di capacitanza resistanze nel diagramma di circuito.

10. ■ I diodo 1S1555 possono essere sostituti con 1S2473, 1S2076 oppure DS472 a meno che sia specificato altrimenti.
■ I transistori possono essere sostituti con 2SC536(Q,R,S), 2SC1740(Q,R,S), 2SC945A(Q,R,P) oppure 2SC1815(G,O,Y) a meno che sia specificato altrimenti.
■ Il transistore 2SA608(E,F) puo essere sostituito con 2SA933(Q,R), 2SA564(QA,RA), oppure 2SA1015(O,Y) a meno che sia specificato altrimenti.

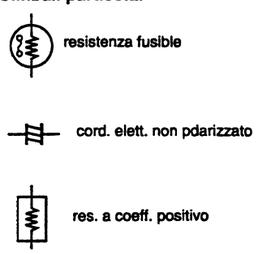
Terminali di : Transistor, diodi, circuiti integrati

C : collettore
B : base
E : emettiore

A : anodo
K : catodo



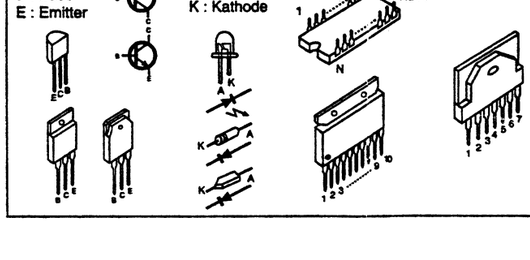
Simbali particolar



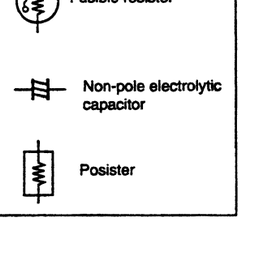
Transistor, Diode & Integrated Circuit terminal guide

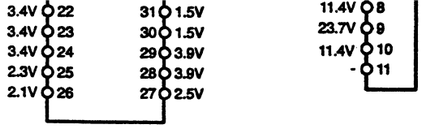
C : Collector
B : Base
E : Emitter

A : Anode
K : Kathode



Particular parts symbol



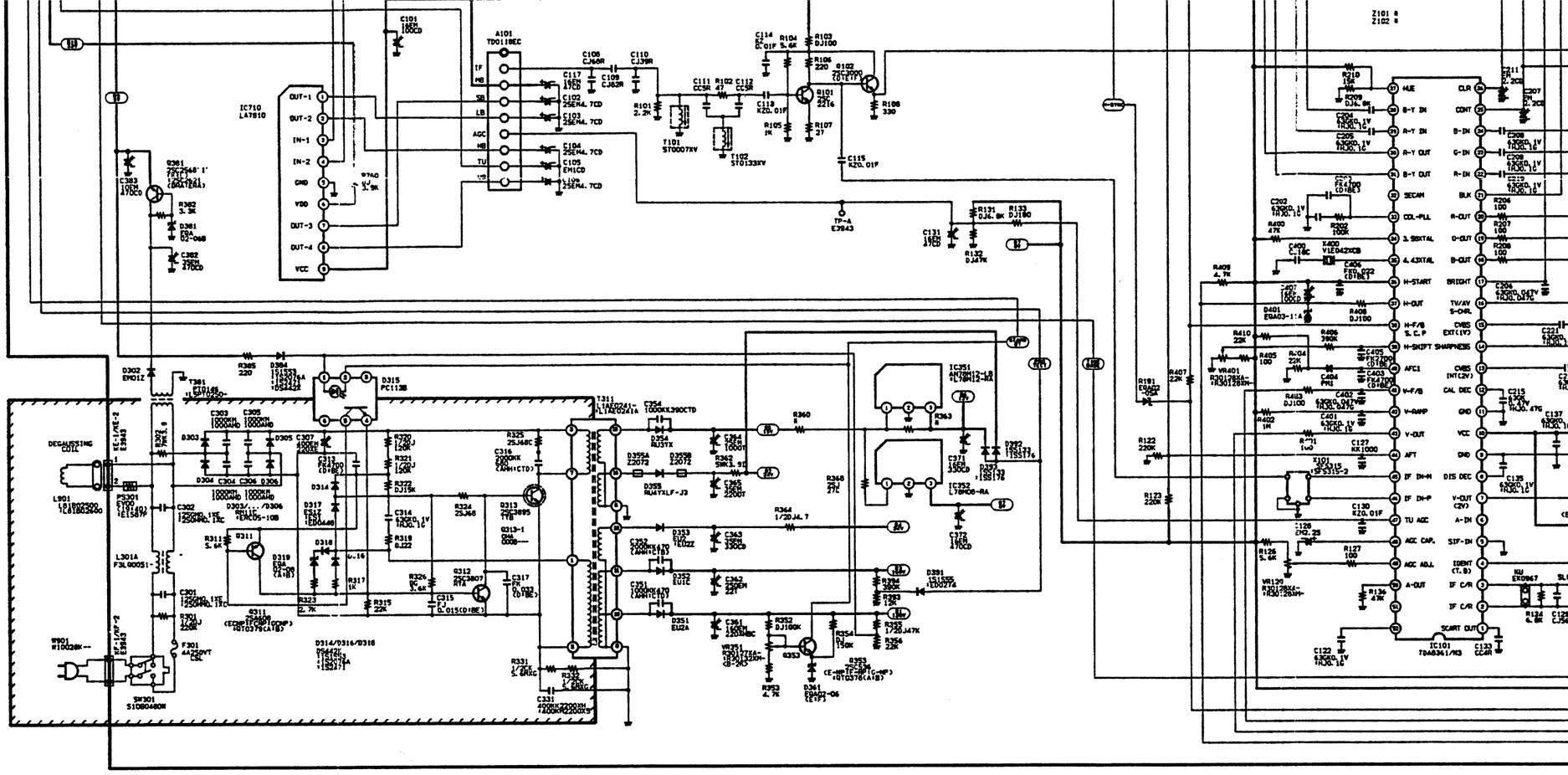


Q312		
	VOLT.	WAVEFORM
B	-1.4V	6.6Vp-p
C	-1.1V	5.0Vp-p
E	0V	

Q313		
	VOLT.	WAVEFORM
B	-1.1V	5.0Vp-p
C	-	660Vp-p
E	0V	

Q431		
	VOLT.	WAVEFORM
B	0.2V	1.0Vp-p HORIZ.
C	11.2V	60Vp-p HORIZ.
E	0V	

Q432		
	VOLT.	WAVEFORM
B	0.1V	12Vp-p HORIZ.
C	-	1100Vp-p HORIZ.
E	0V	



IC191	
	VOLT.
1	9.6V
2	0V
3	5.0V

IC351	
	VOLT.
1	14.5V
2	0V
3	11.7V

IC352	
	VOLT.
1	10.7V
2	0V
3	8.0V

Q101	
	VOLT.
B	1.2V
C	5.3V
E	0.5V

Q102	
	VOLT.
B	5.2V
C	9.1V
E	4.7V

Q122	
	VOLT.
B	3.1V
C	8.1V
E	2.4V

Q124	
	VOLT.
B	2.4V
C	0V
E	3.1V

Q160	
	VOLT.
B	0.4V
C	5.4V
E	0V

Q171	
	VOLT.
B	0V
C	12.9V
E	0V

Q700	
	VOLT.
B	8.0V
C	0V
E	5.0V

Q702	
	VOLT.
B	0.6V
C	0V
E	0V

Q703	
	VOLT.
B	0.6V
C	0.1V
E	0V

Q704	
	VOLT.
B	0.1V
C	29.0V
E	1.8V

Q708	
	VOLT.
B	4.4V
C	5.0V
E	5.1V

Q711	
	VOLT.
B	0.5V
C	5.3V
E	0V

Q714	
	VOLT.
B	0V
C	5.1V
E	0.1V

Q202	
	VOLT.
B	0.6V
C	0.1V
E	0V

Q203	
	VOLT.
B	0V
C	0V
E	0V

Q311	
	VOLT.
B	9.5V
C	-1.4V
E	9.9V

Q353	
	VOLT.
B	6.8V
C	29.0V
E	6.2V

Q381	
	VOLT.
B	5.7V
C	15.7V
E	5.1V

Q434	
	VOLT.
B	0V
C	4.9V
E	0V

Q443	
	VOLT.
B	7.7V
C	0.7V
E	7.8V

Q461	
	VOLT.
B	0.5V
C	9.1V
E	0V

Q462	
	VOLT.
B	9.7V
C	0V
E	9.1V

Q781	
	VOLT.
B	3.3V
C	8.0V
E	2.8V

Q800	
	VOLT.
B	0.1V
C	0V
E	0V

Q801	
	VOLT.
B	0.9V
C	11.7V
E	0.3V

Q802	
	VOLT.
B	0V
C	5.1V
E	0V

Q803	
	VOLT.
B	0V
C	0V
E	0.6V

Q804	
	VOLT.
B	0.6V
C	11.7V
E	0.1V

Q805	
	VOLT.
B	0V
C	0.6V
E	0V

PRECAUZIONE DI SERVIZIO
L'area inclusa in questa linea (⚠) è collegata direttamente con la tensione della rete CA quando si serve l'area collegare un trasformatore isolante tra il ricevitore TV e la linea CA per eliminare il pericolo di scossa elettrica.

The service Precaution:
The area enclosed by this line (⚠) is directly connected with AC mains voltage. When servicing the area, connect an isolating transformer between TV receiver and AC line to eliminate hazard of electric shock.

NOTIZIE SULLA SICUREZZA DI FUNZIONAMENTO
Ogni sotituzione di componenti va fatta tenendo conto della sicurezza di funzionamento. I componenti indicati sollo schema con il simbolo ⚠ hanno particolare importanza per il sicuro funzionamento del TV.
I suddetti componenti devono essere sostituti esclusivamente con quelli indicati nell'elenco.

Product safety notice:
Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a mark ⚠ in this circuit diagram show components whose values have special significance to product safety. It is particularly recommended that only parts specified on the part service manual be used for components replacement pointed out by the mark.

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COLOUR TELEVISION
TELEVISIONE A COLORI

EB2-A CHASSIS SERIES

SERVICE REF.NO. **C21EF34-00**
C21EF34-01

Part No. 1AA6P2P0377-- E7RT-A (1)

Circuit diagram notes :
1. All resistance values are in ohms, K=1,000, M=1,000,000.
2. All resistance rated wattages are 1/6W unless otherwise noted.
3. Excepting electrolytic capacitors, all capacitance values of less than 1 are expressed in μF and more than 1 are pF.
4. All capacitance rated voltages are 50V unless otherwise noted.
5. All inductance values are in μH.
6. Voltage readings taken with taken with a "VTVM" are from point indicated chassis ground. Voltage readings taken by using a colour bar signal are with all controls at normal position. Some voltages may vary with signal strength.
7. Waveforms were taken with colour bar and controls adjusted for normal picture. Waveforms were taken by using a wide band oscilloscope and a low capacity probe.
8. This circuit diagram covers a basic or representative chassis only. There may be some components or partial circuit differences between the actual chassis and the circuit diagram.
9. Expression of capacitance and resistance in circuit diagram.

Capacitance (Example)
1000 C M 2000 D
- Characteristic
- Capacitance value (220pF)
- Allowable error (±20%) — J= ± 5%, K= ± 10%, M= ± 20%
- Kind (Ceramic) — T,A,U,D:Electrolytic, C,K,B:Ceramic, F:Mylar film, M,N:Polypropylene, Z:Metalized paper
- Rated voltage(1,000V)

Resistance (Example)
1/2 N J 1.2
- Resistance value (1.2Ω)
- Allowable error (±5%)
- Kind (M.carbon) — D:Carbon, N:Metalized carbon, S:Oxide metalized, W:Wire wounding, C:Solid
- Rated wattage(1/2W)

10. ■ Diode 1S1555 may be replaced with 1S2473, 1S2076 or DS472 unless otherwise noted.
■ Transistor 2SC536(Q,R,S), 2SC1740(Q,R,S), 2SC945A(Q,R,P) or 2SC1815(G,O,Y) unless otherwise noted.
■ Transistor 2SA608(E,F) may be replaced with 2SA933(Q,R), 2SA564(QA,RA), or 2SA1015(O,Y) unless otherwise noted.

Note sui diagramma di circuito :
1. Tutte i valori di resistenze sono in ohm, K=1,000, M=1,000,000.
2. Tutte le resistenze nominali watt sono di 1/6 a meno che sia specificato altrimenti.
3. Eccetto per i condensatori elettrolitici, tutti i valori di capacitanza di meno di sono espressi in μF, e di piu di 1 sono in pF. I varoli di capacitanza elettrolitici sono in μF.
4. Tutti volt di capacitanza nominali sono di 50V a meno cha sia indicato altrimenti.
5. Tutti valori di Induttanza sono in μH.
6. I valori letti del voltaggio presi con un "VTVM" proven gono dal punto indicato sulla massa del chassis, i valori di voltaggio presi usando un segnale di barre colore sono con tutti i controlli alle loro posizioni normali ed il commutatore AFC in posizione "OFF". Il voltaggio puo variare con l'intensita del segnale.
7. Le forme di onda furono prese con il segnale di barre colore e i controlli regolati oppure le forme di onda di immagine normale furono prese usando un oscilloscope a larga banda ed una sonda bassa capasità.
8. Rispetto a quando indicato su questo schema possono essere state introdotte delle modifiche.